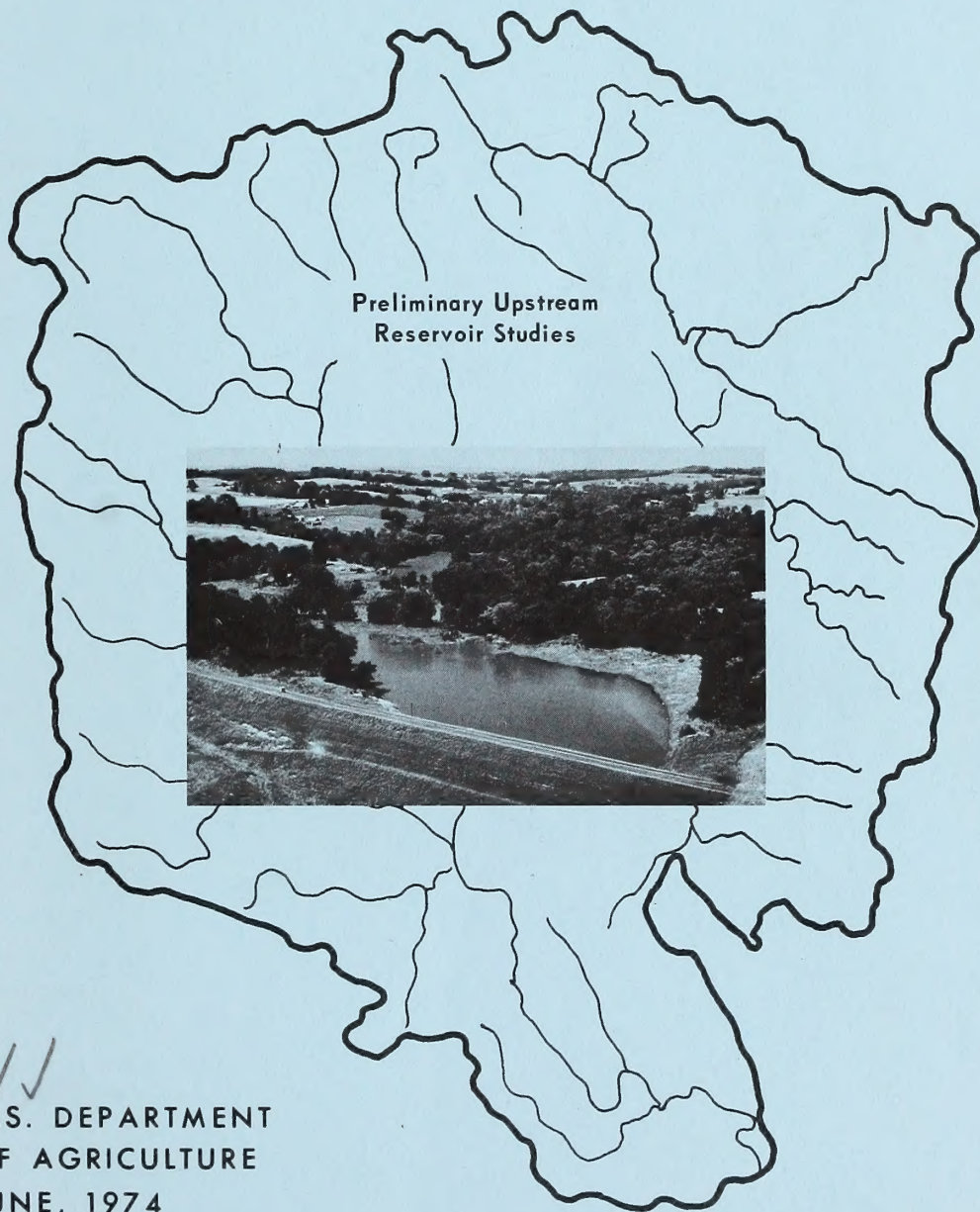


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Do not assume content reflects current
scientific knowledge, policies, or practices.

MUSKINGUM RIVER BASIN

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LIBRARY

Reservoir Studies
of
Potential Sites

Appendix to
United States Department of Agriculture Report
on the
Muskingum River Basin
Ohio

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CATALOGING - PREP.

Prepared by
United States Department of Agriculture
1975

Muskingum River Basin
Reservoir Studies

Introduction

The United States Department of Agriculture, under the Watershed Protection and Flood Prevention Act, Public Law 83-566, as amended, is authorized, in cooperation with states and other federal and local agencies, to make investigations and surveys in upstream watersheds as a basis for the development of coordinated programs for the conservation and development of water and land resources. The purpose of the United States Department of Agriculture's participation in the Muskingum River Basin Study is to assist in the development of a comprehensive plan which will be used by the Ohio Water Commission, the various regional planning commission and resource boards, county, city, and village governments, located in the Basin; and other local, state, and federal agencies. This will assist them in their planning and construction activities for the conservation, development and utilization of related water resources. This appendix provides preliminary data which will be of use in planning present and future reservoir sites which can serve to meet the expanding demands for water within the Basin. The Soil Conservation Service inventoried potential upstream reservoir sites available to meet present and projected needs for water related goods and services. This report represents the completion of this inventory for the Muskingum River Basin.

Physical design and cost data was developed for each site to the extent necessary to evaluate its potential for such purposes as flood control, recreation, irrigation, fish and wildlife developments, water quality control, water supply, sediment control, and flow augmentation.

Design and costs data is presented on the sites selected as having the best potential to meet anticipated needs.

This inventory is based upon preliminary data and the information presented should only be used as such.

More intensive investigation of each site will be necessary to substantiate topographic and geologic data before a site can be considered for construction.

Description of Upstream Floodwater Structure

A photograph of a completed upstream site is shown on the following page. A typical section of a multiple purpose structure is shown in Figure 1. This sectional drawing shows a multiple purpose site which includes storage for sediment, floodwater, and recreation.

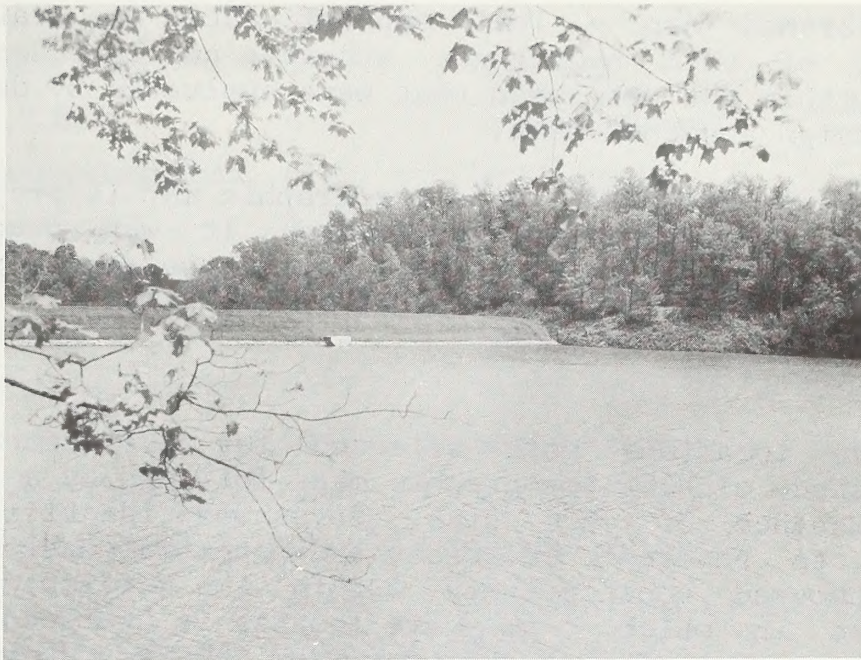
An impoundment structure consists of three basic components; the embankment, the principal spillway, and the emergency spillway. The embankment is constructed of compacted earth fill. The fill material is obtained from required excavations and designated borrow areas on the structure site.

The principal spillway consists of the outlet pipe and the riser. The outlet pipe is normally constructed of reinforced concrete pipe. The riser is a rectangular concrete shaft which serves to regulate the pool elevation and conduct water to the outlet pipe.

The emergency spillway is an earth or rock channel excavated in the abutment slope near one end of the embankment. Both the embankment and the emergency spillway are seeded to provide vegetative cover.

The important characteristic of this floodwater retarding structure is that it is self-operating. There are no outlet gates which require opening and closing to control floods. The rate of flow out of the reservoir is controlled by the design of the riser and outlet pipe. In time of flood, more water enters the reservoir than can be discharged through the principal spillway. This excess water is temporarily stored between the recreation lake level and the emergency spillway level. (See Figure 1.) The excess water is gradually discharged through the principal spillway.

A sufficient volume of storage is provided between the recreation lake level and the emergency spillway level so that a flood expected to occur not more than once in 100 years will be controlled by the structure.



MARGARET CREEK SITE NO. SIX

Fifty-acre lake with 400 acres of wildlife area developed around it.

Should a flood greater than this occur, it is discharged through the emergency spillway. The height of the dam is selected so that a flood from the probable maximum precipitation will not overtop the structure.

Investigation Procedures

1. Maps

The Muskingum River Basin was divided into 63 separate watersheds according to the designations established by the 1967 USDA Conservation Needs Inventory for the State of Ohio. Base maps referencing all the sites considered in this study were prepared using U.S. Geological Survey topographic maps and are organized into three major categories:

(A) Basin Map (Figure 2) - This is a reference map of the entire river basin showing all the watersheds and all sites identified.

(B) Watershed Map - This map delineates the drainage boundary of each hydrologic sub-area and includes all sites within the watershed that were evaluated by developing design and cost data.

(C) Reservoir Site Map - This topographic map is prepared for each structure site evaluated. It was prepared to more clearly define the centerline of the dam location and other physical characteristics of the site.

2. Site Locations

Tentative locations were selected for 331 structures by a study of USGS topographic maps followed by a field reconnaissance of each site. Sites were identified in regards to physical locations and potential use. Sites were numbered consecutively within the watershed. The watershed in which they are located is designed by a prefix for each site as assigned from the CNI reports of 1967. Therefore, the first site selected in the Upper Killbuck Creek (numbered 4B-3.5) is given the number 4B-3.5(1). Watersheds and their associated CNI number are listed on the following page.

Watershed 4A-17, Chippewa Creek, was not included in this study. This watershed is now in the construction phase of Public Law 83-566.

From the original 331 selected sites, design and cost data was developed in 247 sites. Site screening and the resulting selection of sites for further study was based on many factors including expressed needs; stage-storage-surface area relationship; required flood storage; topographic and geologic conditions; and estimated land rights costs.

3. Design Criteria

All designs were based on Soil Conservation Service criteria. The designed height of the dams and the size of the pools were affected by one or many of the following factors: (1) the storage volume needed to retard a 100-year frequency storm without discharge occurring in the emergency spillway, (2) the selected beneficial storage volume, (3) the estimated storage volume for 100-year

Rainbow Creek	4-2	Big Run	4B-3.1
Wolf Creek	4-4	Daughty Creek	4B-3.2
Moxahala-Jonathan	4-9	Wolf Creek	4B-3.3
Symmes Creek	4-10	Black Creek	4B-3.4
Wakatomika Creek	4-11	Kokosing Creek	4B-4
Mud Creek	4A-1	Lake Fork	4B1-2
White Eyes Creek	4A-2	Clear Fork	4B1-3
Evans Creek	4A-3	Rocky Fork	4B1-5
Buckhorn Creek	4A-4	Buffalo Creek	4C-7.1
Beaverdam Creek	4A-8	Buffalo Fork	4C-7.2
Sugar Creek	4A-10	Leatherwood Creek	4C-7.3
Nimishillen Creek	4A-12.2	Rocky Fork	4D-2
Sandy Creek	4A-12-3	South Fork Licking	4D-3
Pigeon Run	4A-13	Raccoon Creek	4D-3.1
Sappo Creek	4A-14	Log Pond Run	4D-4.1
Newman Creek	4A-15	Upper Killbuck Creek	4B-3.5
Chippewa Creek	4A-17	Upper Kokosing River	4B-4.1
Beaver Run	4B-1	Mohican River	
Mill Creek	4B-2	Direct Drainage	4B1-1
Upper Conotton Creek	4A-11.1	Black Fork - Marsh Run	4B1-4
Skull Fork (Crooked Creek)	4A-6	Licking River Local Drainage	4D-1

sediment accumulation, (4) limiting topographic or geologic features, (5) allowable release rates, and (6) critical land rights elevations.

Embankment volumes were computed from surveyed centerlines or centerlines plotted from USGS topographic maps. Stage-storage data was computed from USGS 7½ minute topographic maps.

4. Cost

Construction cost estimates were primarily developed on the basis of embankment volume using a unit cost per cubic yard. This unit construction cost represents all normal construction items except the cost of the principal spillway system, the cost of clearing, and the cost of riprapping.

Cost per cubic yard is based on actual contract cost records of PL-566 structures in Ohio. Clearing costs were estimated by using appropriate cost per acre for the acreage of woodland within the elevation of the beneficial pool plus one foot. The cost of the principal spillway system and riprap on the fill was obtained by using unit cost for computed quantities of concrete, riprap, and conduit pipe. These unit costs are based upon recent contract costs in Ohio.

Where unfavorable geologic conditions have been identified as estimated cost of treating the condition has been added to the construction cost.

The estimated total installation cost of each site includes the construction cost, six percent of construction cost for engineering services, land rights cost, and 14 percent of construction cost for administrative services.

Land rights costs are based on values obtained from local representatives of utilities and highway departments and the present sale value of land and buildings.

Description of Design and Cost Tables and Curves

1. Water-Impounding Structure Design and Cost Data Table

This table immediately follows the watershed map for each numbered watershed in this report. The table lists the design data and associated cost for each site evaluated. Information is provided to appraise each site at six separate increments of development. These increments begin at the lowest, which is for flood retention only, to the highest which is for the maximum reasonable development. This highest point is selected considering one or more of the following:

- a. Topographic limits of the site.
- b. Maximum beneficial storage of 1.5 times the average annual runoff.
- c. Elevation of extremely costly land rights.

The following is an explanation of headings used in the Table:

ELEVATION MSL - Elevation, in feet, above mean sea level datum.

BEN USE POOL - Maximum surface elevation of the pool to be used for beneficial uses such as recreation or water supply. The elevation at the lowest increment is the sediment pool surface elevation.

EMER SPWY CREST - Flood pool elevation, not expected to be exceeded by a 100-year frequency storm.

DSGN HIGH WATER - Maximum flood pool elevation at a design storm which causes flow in the emergency spillway.

TOP OF DAM - The top of dam elevation designed to prevent overtopping from a storm from probable maximum precipitation.

HT DAM FT - MAX HT - The height of dam in feet measured from the lowest elevation (ELEV BOTTOM PROFILE) on the centerline of the dam to the designed top of dam elevation.

STORAGE AC-FT - Volume of reservoir water storage in acre-feet.

SED POOL - Storage needed to accumulate a 100-year volume of sediment from the site. The storage shown at the lowest increment of development is that portion of the total sediment storage expected to accumulate in the sediment pool area. The storage shown at higher increments of development is the total expected sediment accumulation in the entire reservoir.

BEN USE - Storage available for a beneficial use such as recreation or water supply.

TEMP FLOOD - Storage available for the impoundment of floodwater.

TOTAL EMER SPWY CREST - Total storage (including sediment, beneficial, and floodwater) below the emergency spillway crest elevation.

SURFACE AREA AC - The surface area, in acres of any occupied storage in the reservoir.

BEN USE POOL - The reservoir surface area attained when the total volume of beneficial water and sediment is stored.

DSGN HIGH WTR - Maximum reservoir surface area attained by a design storm causing flow in the emergency spillway.

FILL (1,000 YD) - VOL - The earth fill volume in units of 1,000 cubic yards.

INSTALLATION COST \$1,000 - The cost, in \$1,000 units, for the installation of each site.

CONSTR - Total contractual cost required for constructing the site.

ENGR SERV - Total direct costs for surveys, investigation, design, and preparation of plans and specifications.

L/R - Cost necessary in acquiring land and buildings and relocating roads and utilities.

ADM - Total project administration costs associated with the installation of the site including the cost of contract administration and necessary inspection service during construction.

TOTAL - Total installation cost including construction, engineering services, land rights, and project administration.

UNIT COST \$ PER UNIT - Dollar value of total installation cost per unit measure.

PER AC-FT TOTAL STORE - The total installation cost divided by the total storage at the emergency spillway crest.

PER ACRE BEN SURF - The total installation cost divided by the surface acres of the beneficial pool area.

PER AC-FT BEN STORE - The total installation cost divided by the total acre-feet of beneficial storage.

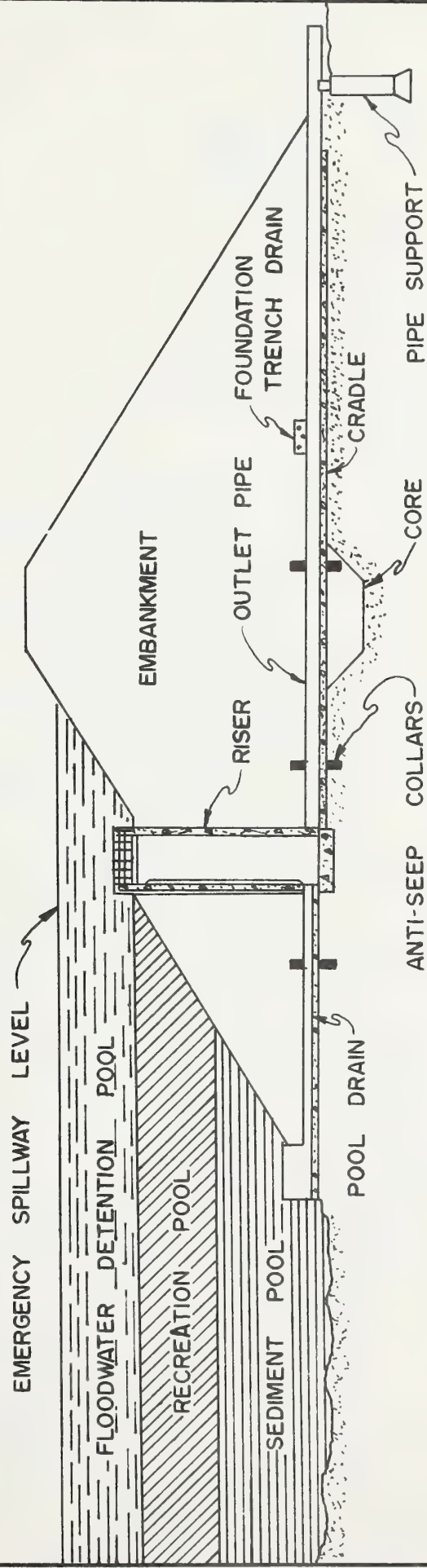
On the line above the data pertaining to each site is the following information:

SITE - The site number.

D.A. - The drainage area of the site in square miles.

ELEV BOTTOM PROFILE - The lowest elevation taken along the centerline of the embankment profile.

POTENTIAL USE - The potential uses recognized for the site. The potential use abbreviations are explained at the bottom of the Table.



SECTION OF A TYPICAL FLOODWATER RETARDING STRUCTURE WITH RECREATIONAL STORAGE ADDED

FIGURE 1



POTENTIAL RESERVOIR SITES MUSKINGUM RIVER BASIN OHIO

FIGURE 2



MOHICAN RIVER SUB BASIN

DIRECT DRAINAGE

[illegible]

POTENTIAL USE ABBREVIATIONS					SEDIMENT CONTROL		WATER QUALITY CONTROL		PRICE BASE YEAR 1970
	FC	FLOOD CONTROL	LF	LOW FLOW AUGMENTATION	SD		WQ	WATER SUPPLY	
	FW	FISH AND WILDLIFE	LL	LAKE LEVEL REGULATION			WS		
	IR	IRRIGATION	RE	RECREATION					

POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 1

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FW FISH AND WILDLIFE										LL										LOW FLOW AUGMENTATION										WQ										WATER QUALITY CONTROL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 3

OHIO MUSKINGUM RIVER BASIN										MOHICAN RIVER S.B.										LAKE FORK W.S.																																																																																																																																																																																													

ELEVATION										STORAGE										SURFACE										FILL										INSTALLATION COST										UNIT COST										GROSS																																																																																																																																																					
(FT MSL)										(AC-FT)										(AC)										(1000*										(YDS)										(\$1000)										YIELD																																																																																																																																																					
*HGT *										*DAM *										*AREA										* (1000*										* (AC)										* (YDS)										* (MGD)																																																																																																																																																					

NORM										EMERG										DSGN										TOP										*MAX										*BEN										*NORM										*DSGN										*VOL										*CONST										*ENGR										*L/R										*PROJ										*TOTAL										*AC-FT										*ACRE										*AC-FT										*FOR																																							
POOL										SPWY										HIGH										OF										*HGT										*USE										*POOL										*HIGH										*E.S.										*POOL										*HIGH										*WTR										*ADM										*STORE										*BEN										*BEN										*2																																																	
CREST										WATER										DAM										*CREST										*WTR										*ADM										*STORE										*BEN										*BEN										*2										*ALLOC										*ALLOC										*STORE										*P.C.																																																																															

SITE RIPLEY CH.(118)										B OA=										2.89 SQ.MI.										ELEV.										BOTTOM										C/L										PROFILE=										1014.0										POTENTIAL										USES-FC										RE																																																																																																													

1026.6										1041.0										1043										1051										*37										*102										376										496										*17										46										*98										*212										17										35										61										325										*655										*																																							
1045.5										1052.0										1054										1060										*46										*600										702										377										1097										*52										74										*158										*322										22										57										74										475										*433										5001										792										*0.61									
1055.0										1059.6										1061										1067										*53										*1216										1318										378										1714										*78										97										*209										*410										26										78										80										595										*347										5400										489										*1.00									
1061.9										1065.4										1066										1071										*57										*1833										1935										380										2333										*103										129										*254										*482										29										116										88										715										*307										5467										390										*1.24									
1071.3										1073.8										1074										1079										*65										*3066										3168										384										3570										*158										177										*346										*634										38										158										114										944										*265										5123										308										*1.24									

SITE GRAB RUN (19)										C OA=										2.95 SQ.MI.										ELEV.										BOTTOM										C/L										PROFILE=										1068.0										POTENTIAL										USES-FC										RE																																																																																																													

1081.1										1098.3										1102										1109										*41										*97										452										567										*14										52										*119										*253										18										49										67										387										*684										*																																							
1101.0										1108.0										1111										1120										*52										*600										697										453										1167										*48										105										*226										*426										27										98										82										633										*542										6723										1054										*0.62									
1109.6										1114.1										1117										1128										*60										*1236										1333										453										1803										*96										138										*346										*612										37										136										110										895										*496										6370										724										*1.01									
1115.4										1118.9										1122										1132										*64										*1871										1968										453										2439										*127										162										*411										*713										43										173										128										1057										*433										6362										565										*1.30									
1123.8										1126.5										1129										1137										*69										*3143										3240										454										3711										*174										202										*546										*918										55										212										165										1351										*364										6577										430										*1.30									

FC										FLOOD										CONTROL										LF										LOW										FLOW										AUGMENTATION										SD										SEDIMENT										CONTROL										RESERVOIR										LOCATIONS.										ALL										DATA										BASED										ON										PRELIMINARY																																																	
FW										FISH										AND										WILDLIFE										LL										LAKE										LEVEL										REGULATION										WQ										WATER										QUALITY										CONTROL										PRICE										BASE										YEAR										1970																																																											
IR										IRRIGATION										RE										LAKE										LEVEL										REGULATION										WS										WATER										SUPPLY										PRICE										BASE										YEAR										1970																																																																																									

POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 1

OHIO MUSKINGUM RIVER BASIN

MOHICAN RIVER SB.

CLEAR FORK WS.

ELEVATION (FT MSL)	#HGT *	#DAM *	#(FT) *	STORAGE (AC-FT)	SURFACE (AC)	FILL (1000* YDS)	INSTALLATION COST (\$1000)	UNIT COST (\$ PER (MGD)	GROSS YIELD (MGD)			
NORM	EMERG DSGN	TUP *MAX	BEN	NORM TEMP	NORM DSGN	VOL	*CONST	ENGR	L/R PROJ TOTAL	AC-FT ACRE	AC-FT	FOR
POOL	SPWY HIGH	OF	*HGT	USE	POOL FLOOD	E.S.	POOL HIGH	ADM	*STORE BEN	BEN	2	
	CREST WATER	DAM *			CREST	WTR	*		*ALLOC	ALLOC	STORE	P.C.

SITE CEDAR FORK (1) B DA= 6.49 SQ.MI. ELEV. BOTTOM C/L PROFILE= 1256.0 POTENTIAL USES-FC RE

1270.1	1285.3	1294	* 38	* 166	1064	1258	* 30	132	* 109	* 245	18	84	66	413	* 328	
1288.1	1293.6	1294	1300	* 44	* 1500	1666	1064	2758	* 160	227	* 167	* 385	25	142	78	631
1295.0	1299.1	1299	1305	* 49	* 2884	3051	1064	4142	* 244	295	* 217	* 488	29	183	88	789
1300.1	1303.4	1303	1308	* 52	* 4269	4435	1064	5527	* 308	353	* 267	* 585	35	217	105	941
1307.6	1310.3	1310	1315	* 59	* 7038	7204	1064	8296	* 412	447	* 378	* 776	47	255	140	1218

SITE STEEL RUN (3) B DA= 2.32 SQ.MI. ELEV. BOTTOM C/L PROFILE= 1204.0 POTENTIAL USES-FC RE

1221.9	1234.6	1236	1243	* 39	* 80	317	411	* 13	47	* 76	* 182	15	21	54	273	* 664

SITE STEEL RUN (3+) B DA= 4.00 SQ.MI. ELEV. BOTTOM C/L PROFILE= 1180.0 POTENTIAL USES-FC RE

1194.8	1210.6	1211	1219	* 39	* 132	608	764	* 21	66	* 129	* 266	19	91	69	445	* 583

POTENTIAL USE ABBREVIATIONS
ALL DATA BASED ON PRELIMINARY RESERVOIR LOCATIONS.

FC FLOOD CONTROL LF LOW FLOW AUGMENTATION SD SEDIMENT CONTROL
FW FISH AND WILDLIFE LL LAKE LEVEL REGULATION WQ WATER QUALITY CONTROL
IR IRRIGATION RE RECREATION WS WATER SUPPLY

PRICE BASE YEAR 1970

CLEAR FORK WS.

MOHICAN RIVER SB.

OHIO MUSKINGUM RIVER BASIN

ELEVATION (FT MSL)	*HGT * (FT)*	*STORAGE (AC-FT)	*SURFACE * AREA * (AC)	*FILL * (1000* * YDS)*	*INSTALLATION COST	*UNIT COST	*GROSS *YIELD * (MGD)
NORM EMERG DSGN	TOP MAX	BEN NORM TEMP	TOTAL	NORM DSGN	VOL	*CONST ENGR	L/R PROJ TOTAL
POOL SPWY HIGH	*HGT	*USE	*POOL FLOOD E.S.	*HIGH	*ADM	*AC-FT	*ACRE
CREST WATER DAM			CREST	WTR		*STORE BEN	BEN # 2
						*ALLOC	ALLOC STORE
							P.C.

SITE 481-3(8) LEXINGTON C DA= 3.14 SQ.MI. ELEV. BOTTOM C/L PROFILE= 1191.0 POTENTIAL USES-FC RE

[illegible]

SITE 4B1-3(9) ECKERT ROAD B DA= 7.27 SQ.MI. ELEV. BOTTOM C/L PROFILE= 1214.0 POTENTIAL USES=FC

[illegible]

SITE SWITZER CREEK (12) B DA= 1.51 SQ.MI. ELEV. BOTTOM C/L PROFILE= 1236.0 POTENTIAL USES-FC RE

[illegible][illegible]

	FW	IR	FISH AND WILDLIFE	LL	LAKE LEVEL	REGULATION	WQ	WATER QUALITY	CONTROL
			IRRIGATION	RE	RECREATION		WS	WATER SUPPLY	

OHIO MUSKINGUM RIVER BASIN

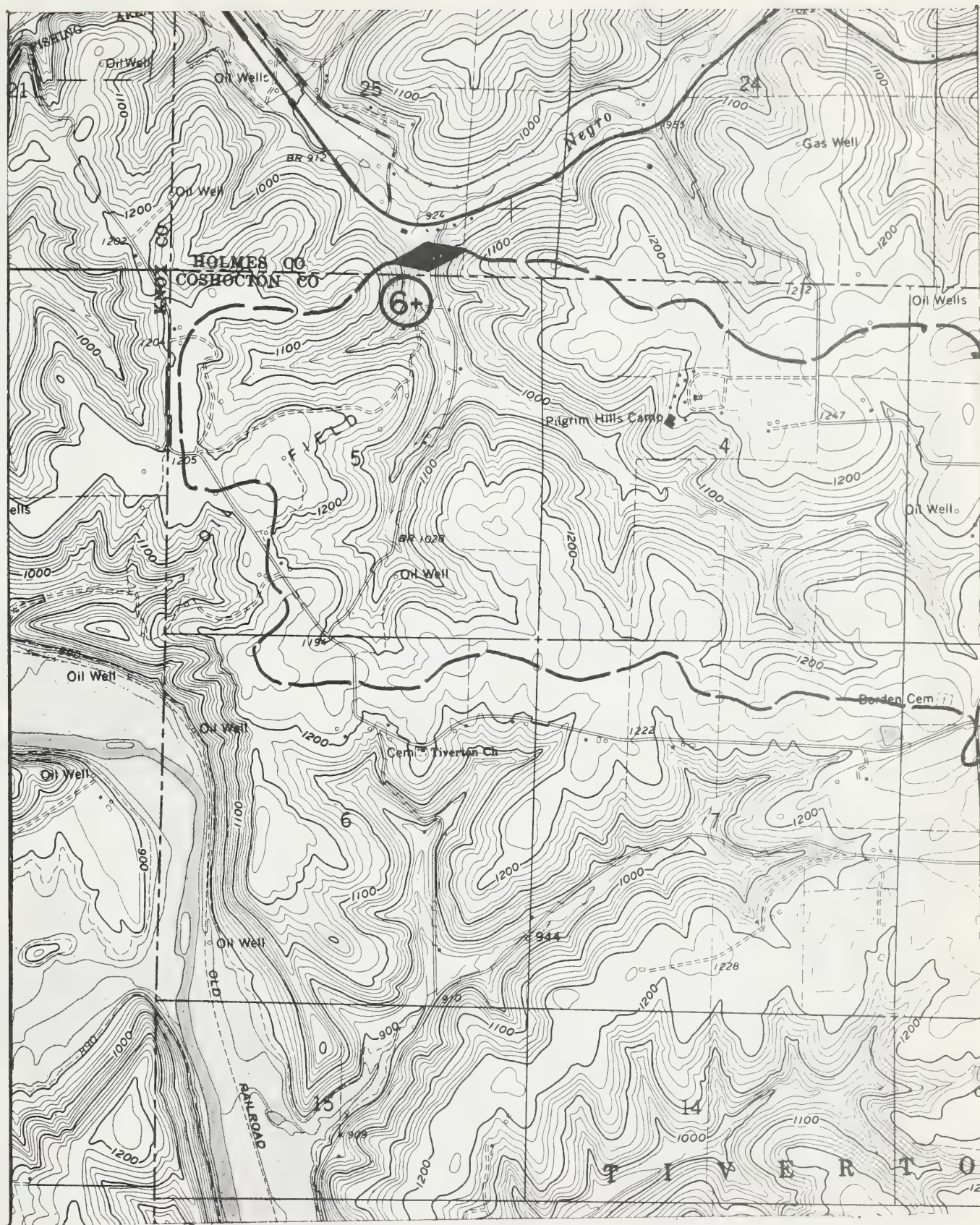
MOHICAN RIVER S.B.

BLACK FORK MARSH RUN W.S.

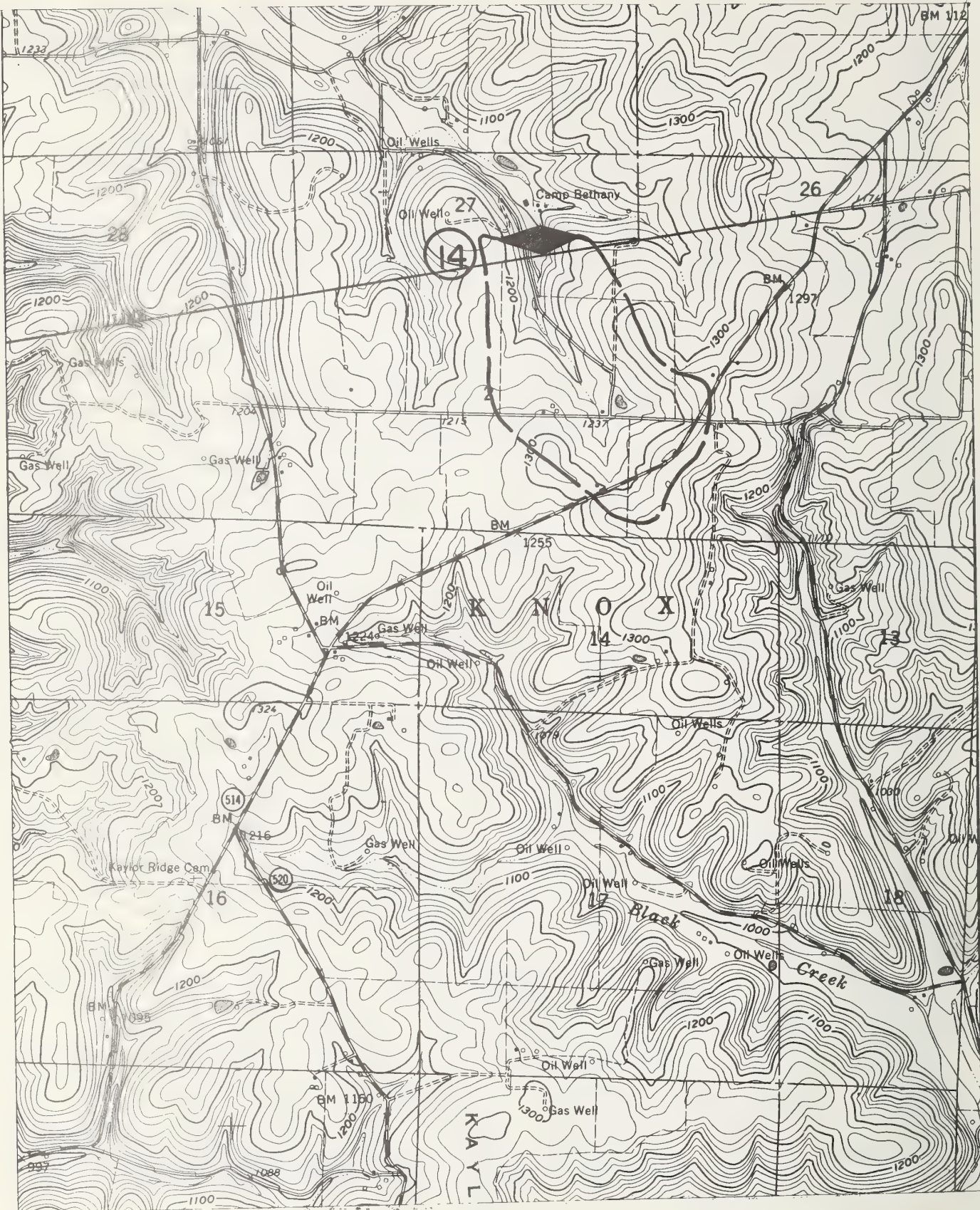
ELEVATION	*HGT *	*STORAGE	*SURFACE	*FILL*	*INSTALLATION COST	*UNIT COST	*GROSS	*****			
(FT MSL)	*DAM *	(AC-FT)	*AREA	(1000*			*YIELD	*****			

POTENTIAL RESERVOIR SITE LGN AND COST SUMMARY NO. 1

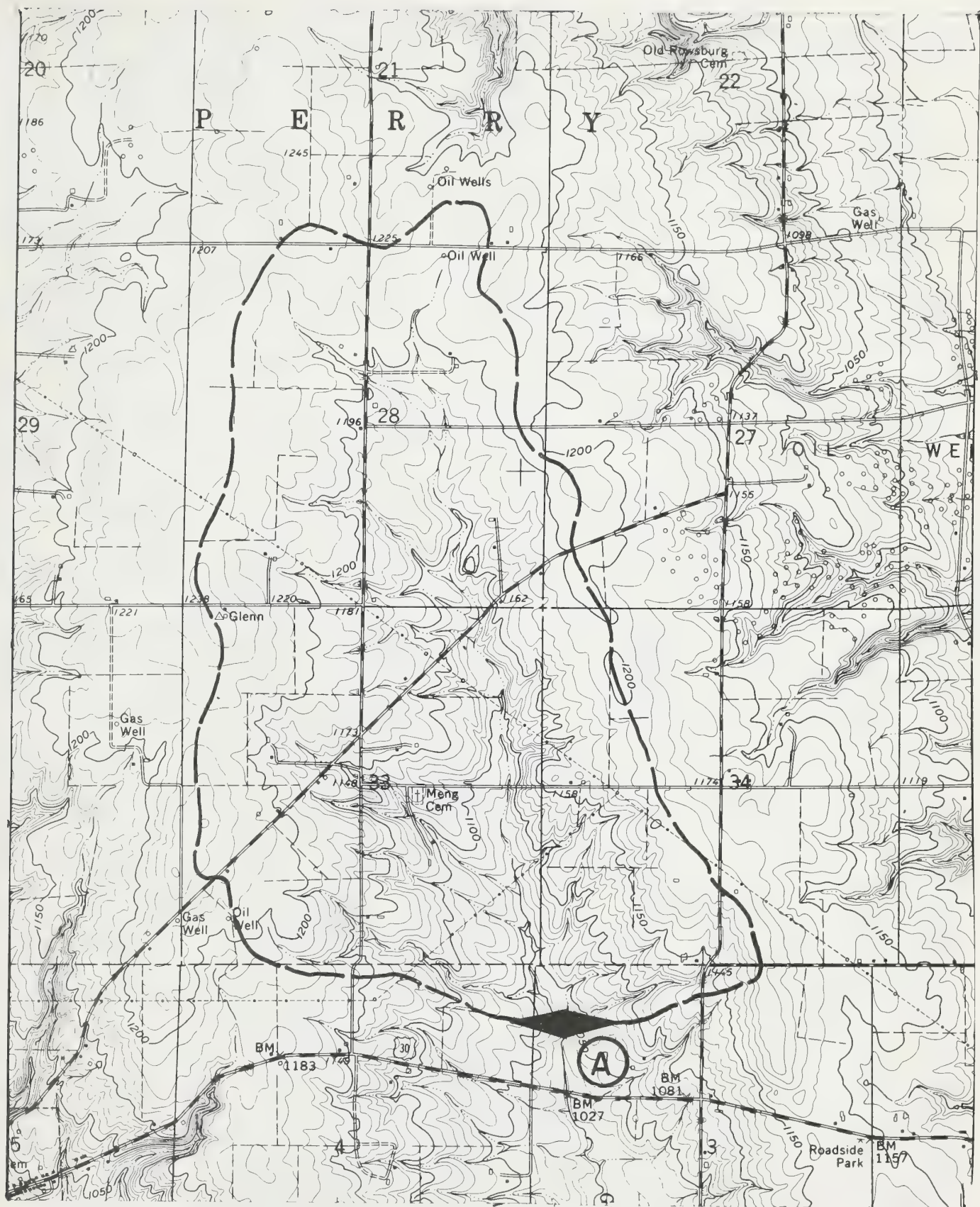
OHIO MUSKINGUM RIVER BASIN										MOHICAN RIVER S.B										ROCKY FORK W.S.									



SITE NO. 4B1-1 (6+)
 SUBWATERSHED MOHICAN RIVER (DIRECT DRAINAGE)
 LOCATION CO. HOLMES TWP. RICHLAND
 SEC. 25 SW⁴ OF SE¹
 QUAD. BRINKHAVEN
 SCALE 1:24000 C.I. 20 ft.



SITE NO. 4B1-1 (14)
 SUBWATERSHED MOHICAN (LOCAL DRAINAGE)
 LOCATION CO. HOLMES TWP. KNOX
 SEC. 27 NE⁴
 QUAD. GREER
 SCALE 1:24000 C. I. 20 ft.



SITE NO. 4B1-2 (A)

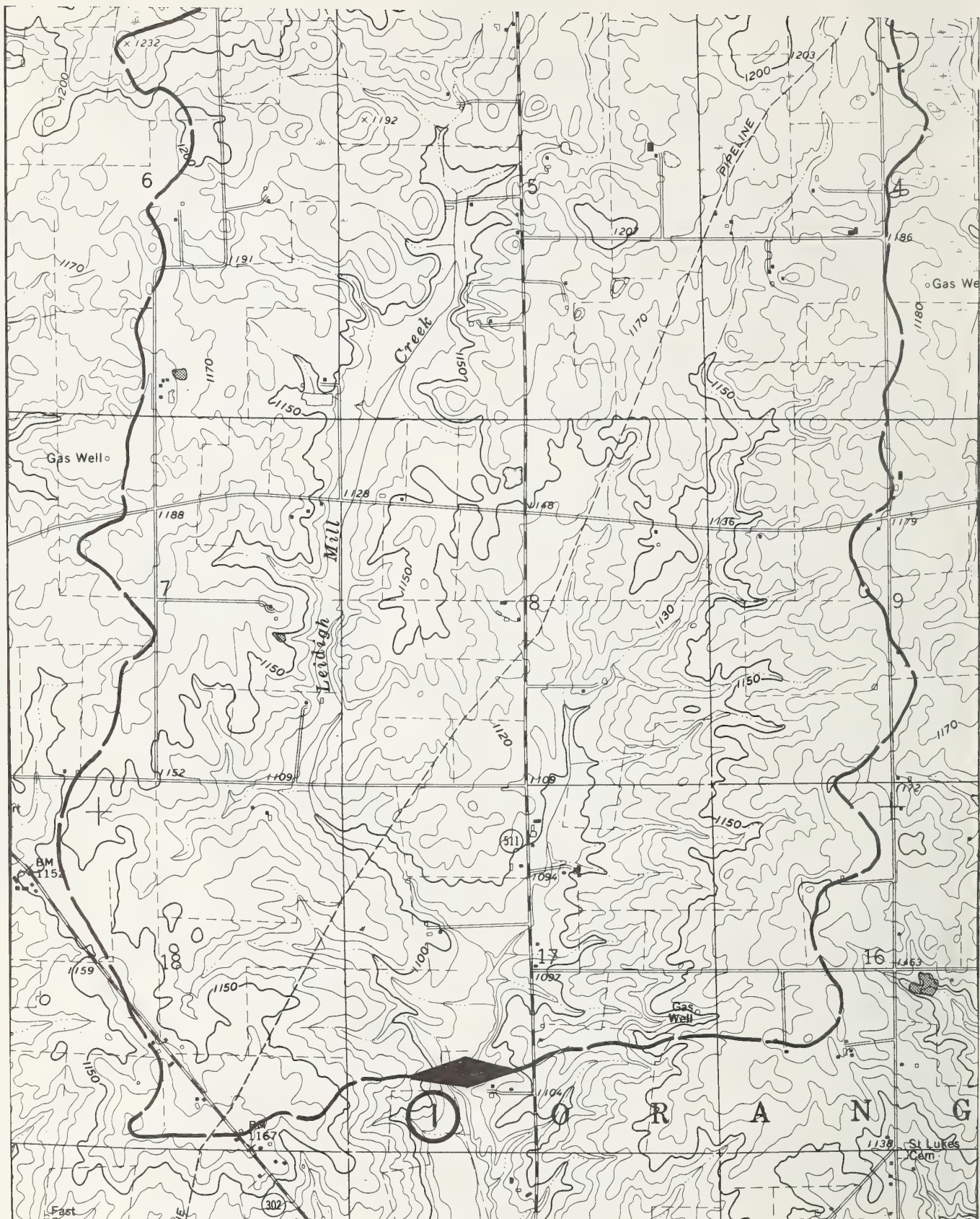
SUBWATERSHED MOHICAN (LAKE FORK)

LOCATION CO. ASHLAND TWP. MOHICAN

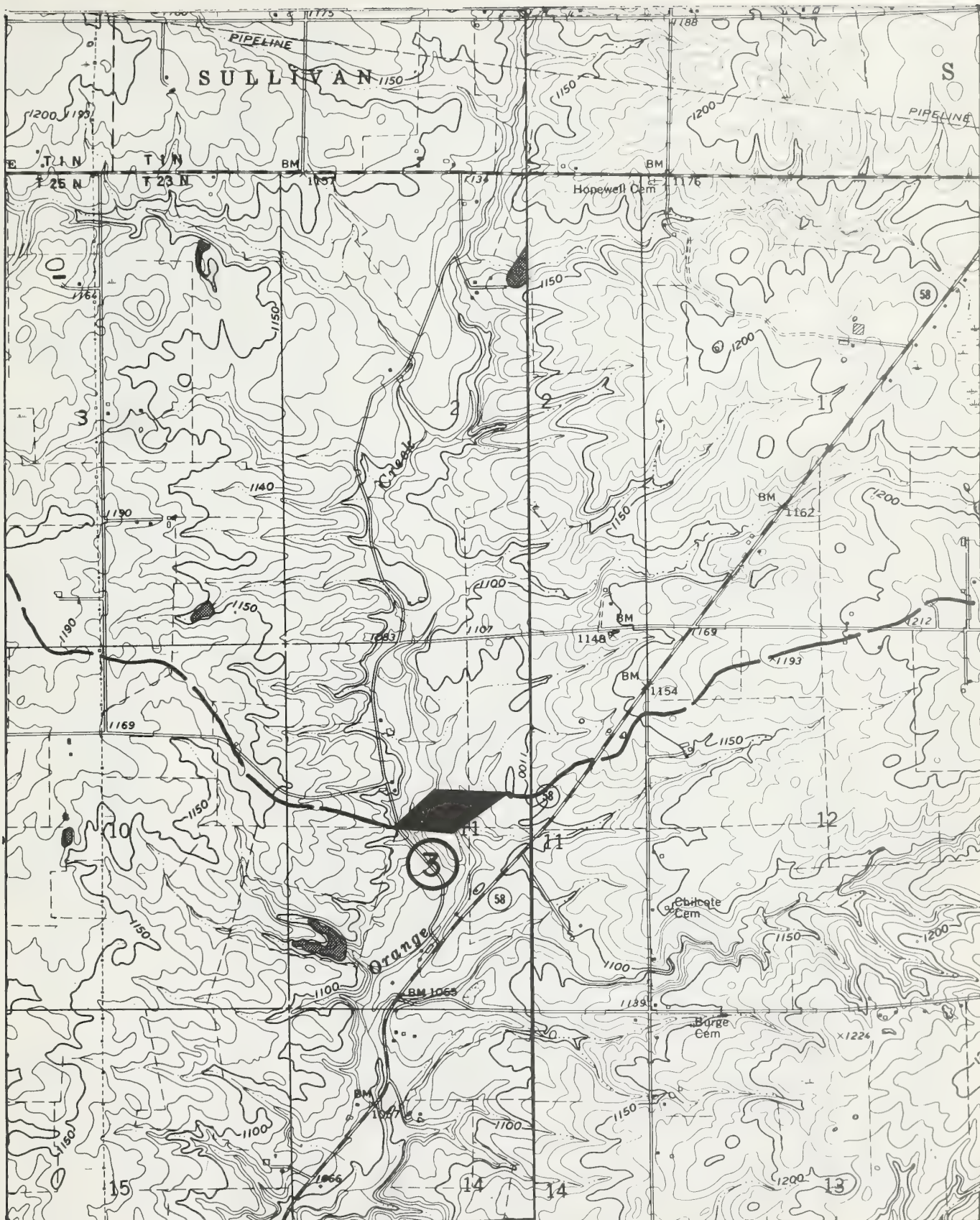
SEC. 3 NW⁴ OF NW⁴

QUAD. JEROMESVILLE

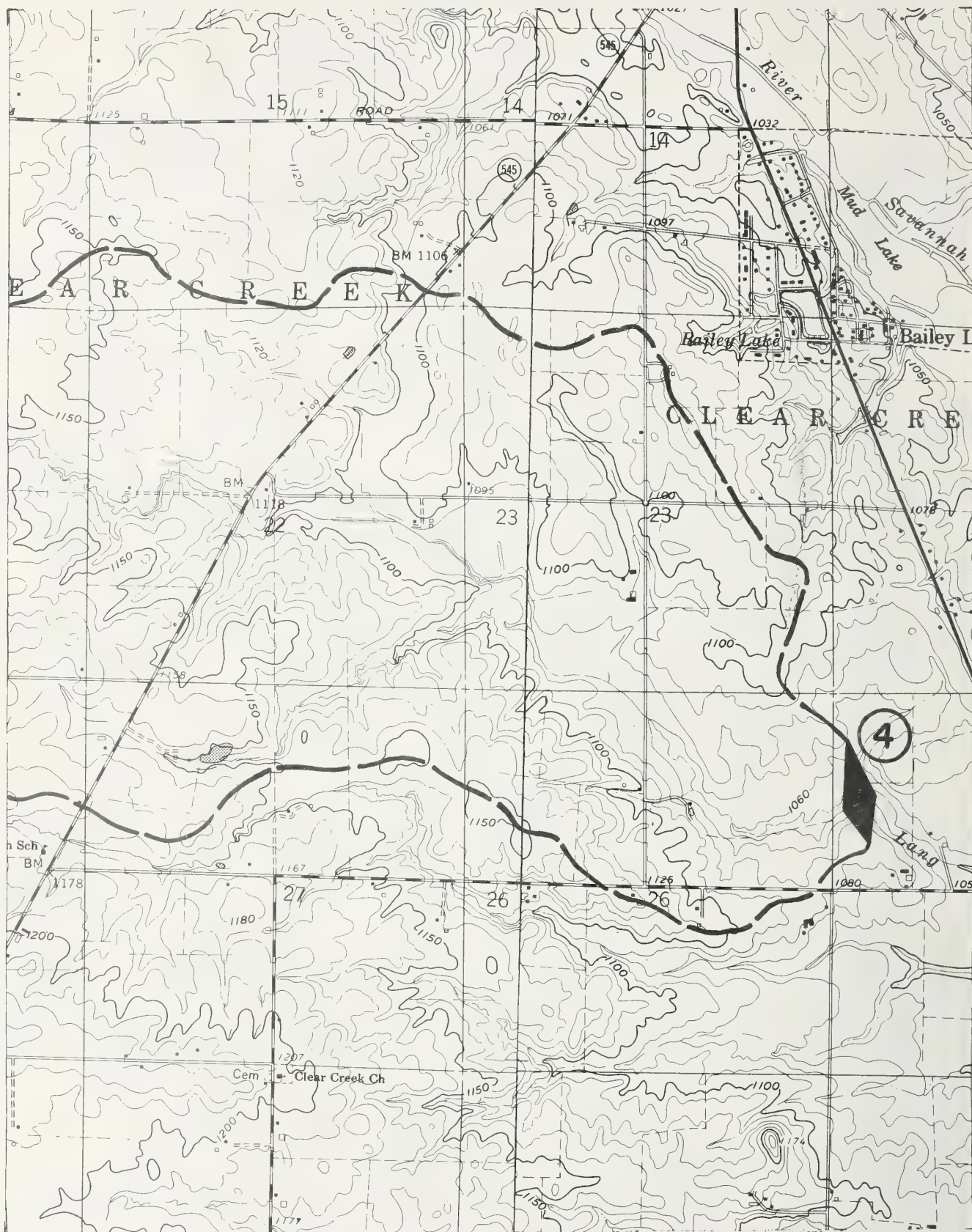
SCALE 1:24000 C. I. 10 f t



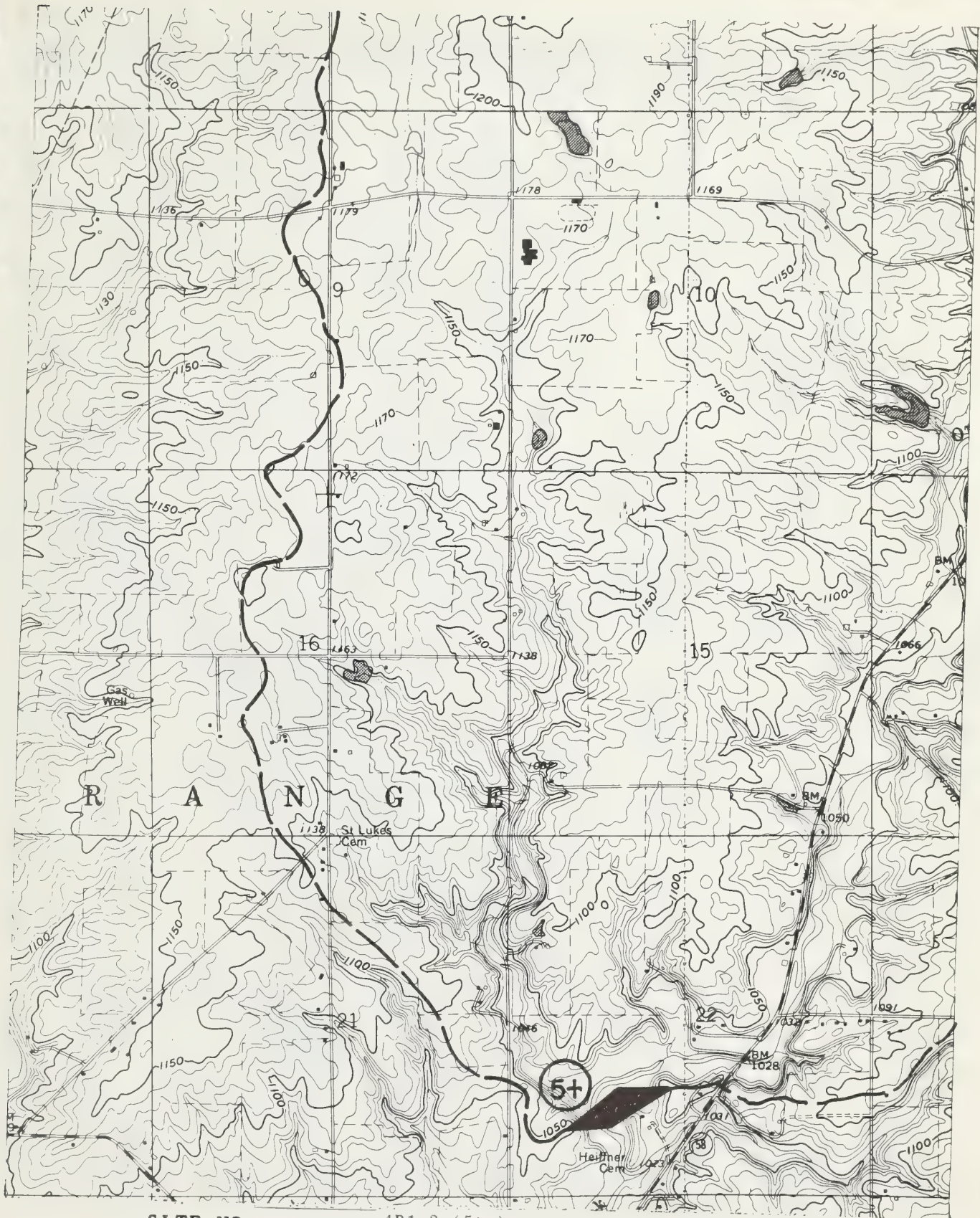
SITE NO. 4B1-2 (1)
 SUBWATERSHED MOHICAN (LAKE FORK)
 LOCATION CO. ASHLAND TWP. ORANGE
 SEC. 17 SE⁴ OF SW⁴
 QUAD. ASHLAND NORTH
 SCALE 1:24000 C. I. 10 ft.



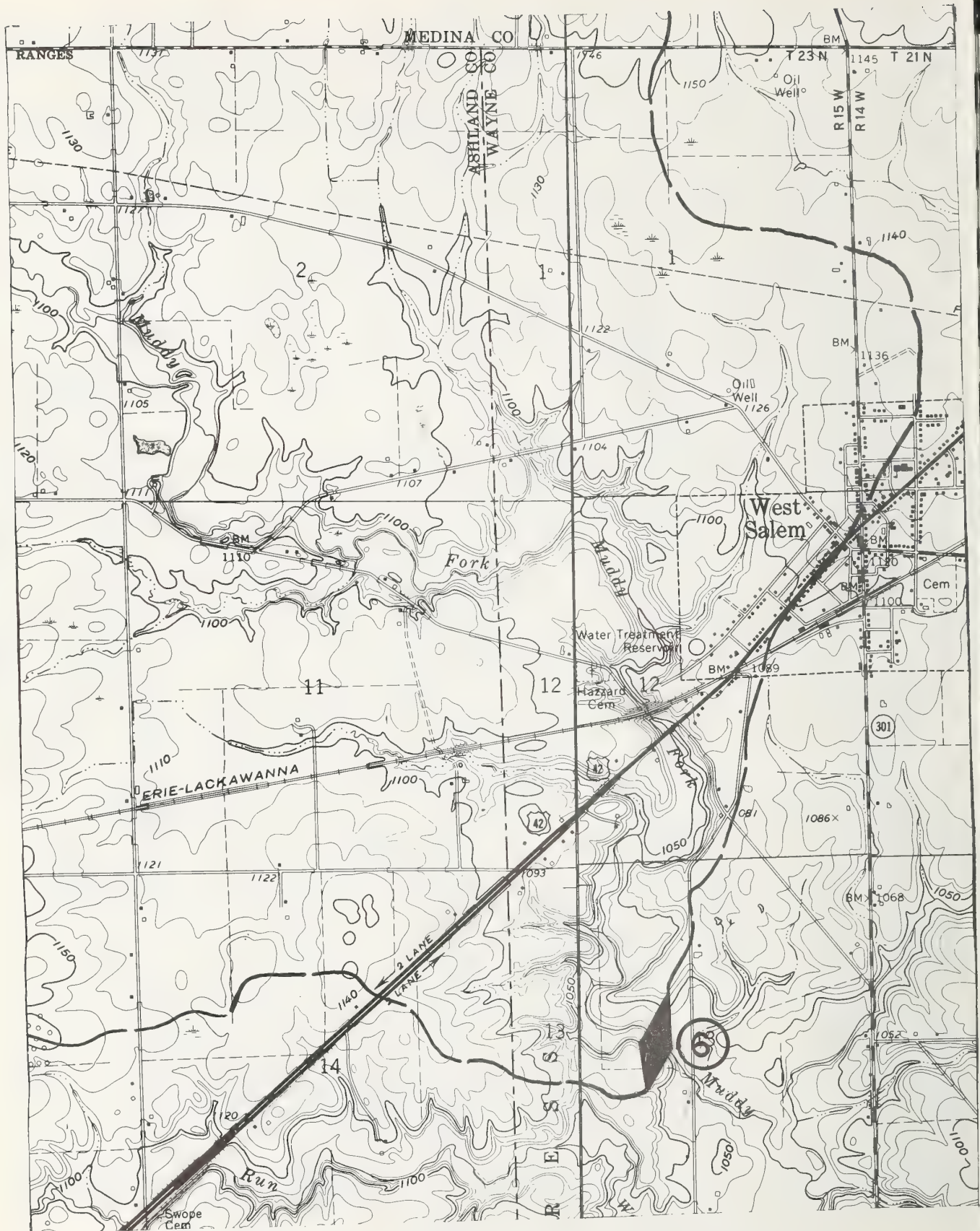
SITE NO. 4B1-2 (3)
 SUBWATERSHED MOHICAN (LAKE FORK)
 LOCATION CO. ASHLAND TWP. ORANGE
 SEC. 11 SE 1/4 OF NW 1 4
 QUAD. ASHLAND NORTH
 SCALE 1:24000 C.I. 10 FT ft.



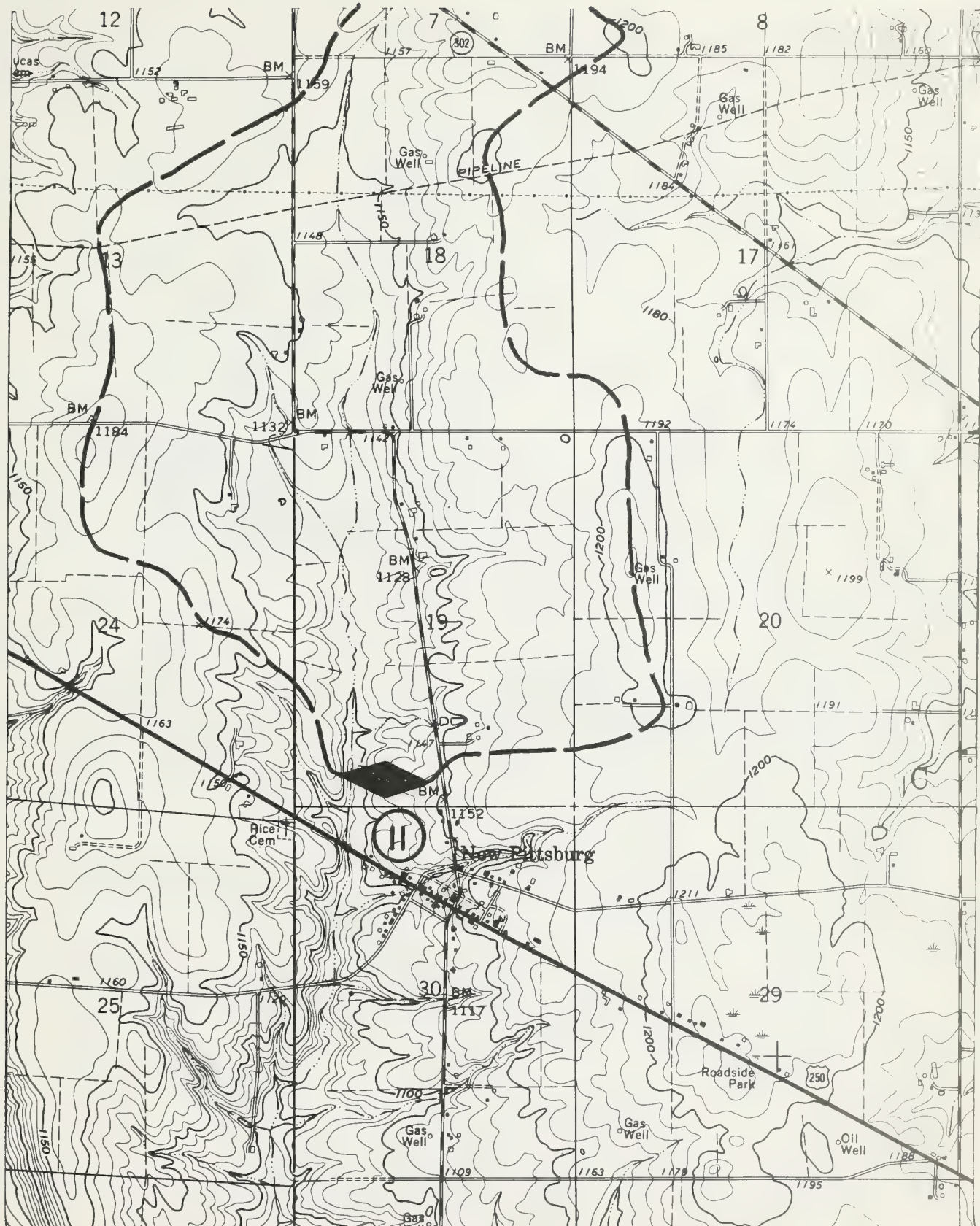
SITE NO. 4B1-2 (4)
 SUBWATERSHED MOHICAN (LAKE FORK)
 LOCATION CO. ASHLAND TWP. CLEAR
 SEC. 25 NW⁴ OF NW⁴
 QUAD. ASHLAND NORTH
 SCALE 1:24000 C.I. 10 ft.



SITE NO. 4B1-2 (5+)
 SUBWATERSHED MOHICAN (LAKE FORK)
 LOCATION CO. ASHLAND TWP. ORANGE
 SEC. 22 SW⁴ OF SW⁴
 QUAD. ASHLAND NORTH
 SCALE 1:24000 C.I. 10 ft.



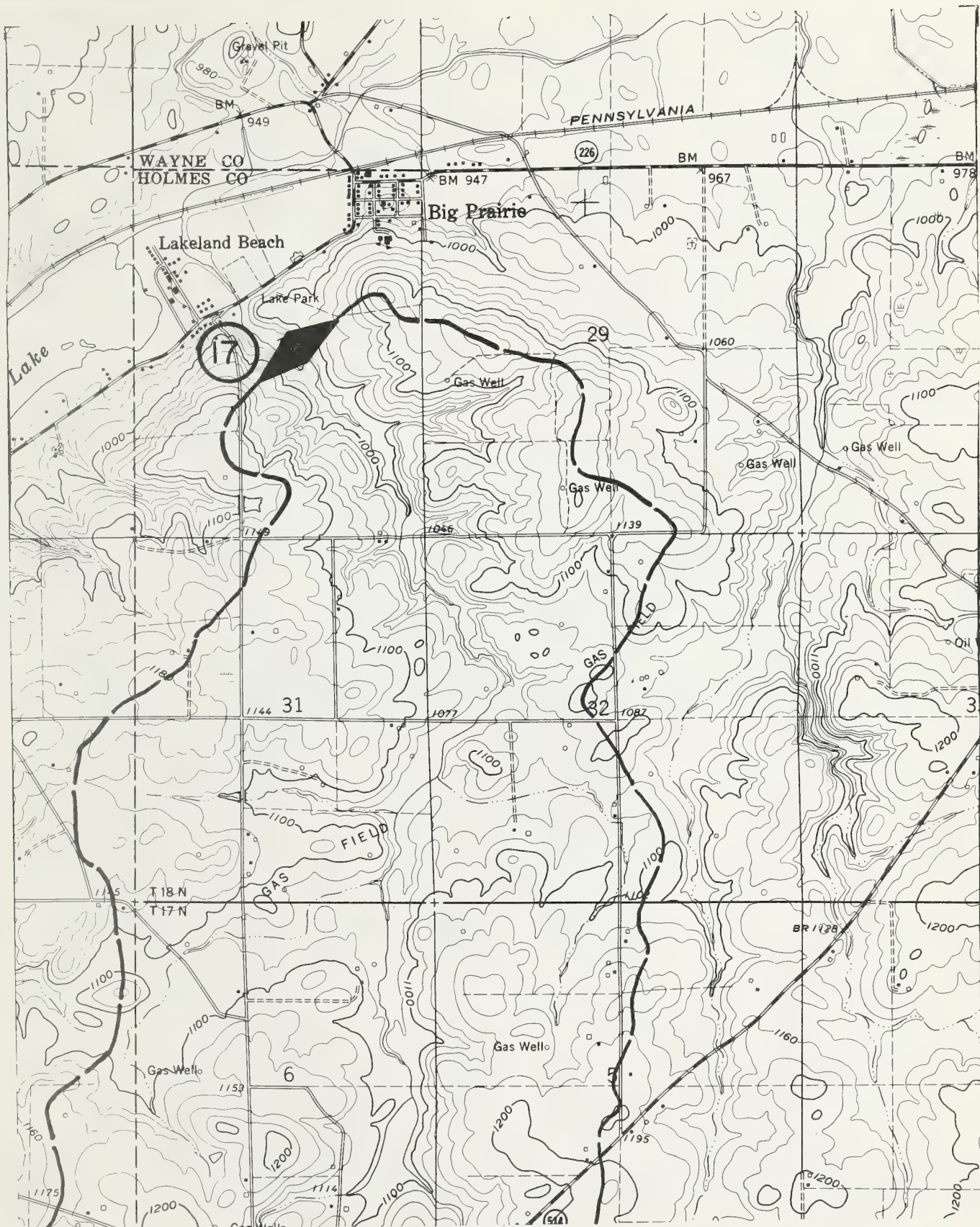
SITE NO. 4B1-2 (6)
 SUBWATERSHED MOHICAN (LAKE FORK)
 LOCATION CO. WAYNE TWP. CONGRESS
 SEC. 13 SE⁴ OF NW⁴
 QUAD. WEST SALEM
 SCALE 1:24000 C.I. 10 ft.



SITE NO. 4B1-2 (11)
 SUBWATERSHED MOHICAN (LAKE FORK)
 LOCATION CO. WAYNE TWP. CONGRESS
 SEC. 19 SW⁴ OF SW⁴
 QUAD. NEW PITTSBURG
 SCALE 1:24000 C.I. 10 ft.



SITE NO. 4B1-2 (13)
SUBWATERSHED MOHICAN (LAKE FORK)
LOCATION CO. ASHLAND TWP. VERMILLION
SEC. 11 NW 1/4 OF NE 1/4
QUAD. JEROMESVILLE
SCALE 1:24000 C.I. 10 FT. ft.



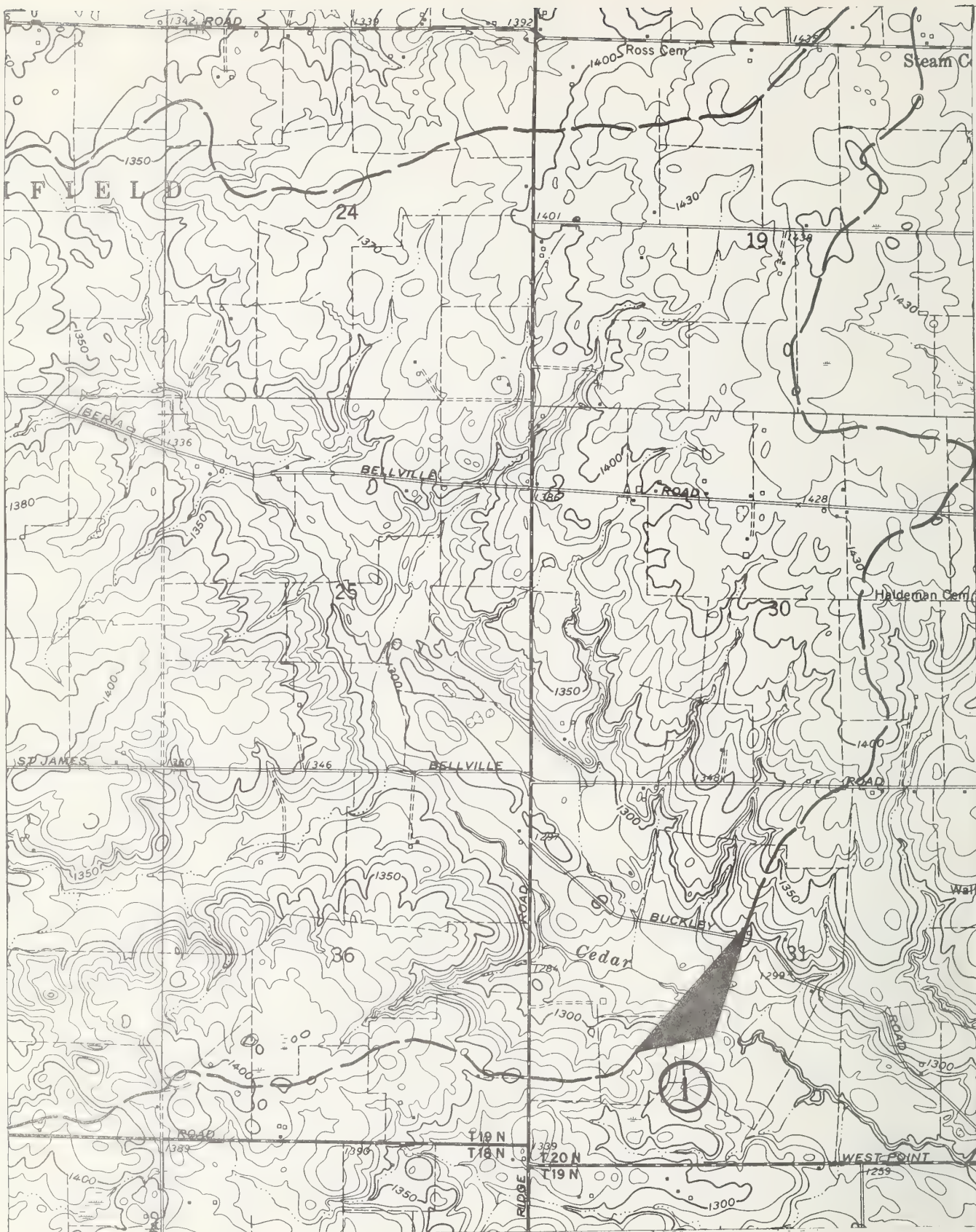
SITE NO. 4B1-2 (17)
 SUBWATERSHED MOHICAN (LAKE FORK)
 LOCATION CO. HOLMES TWP. RIPLEY
 SEC. 30 NW⁴ OF SE⁴
 QUAD. SHREVE
 SCALE 1:24000 C.I. 20 ft.



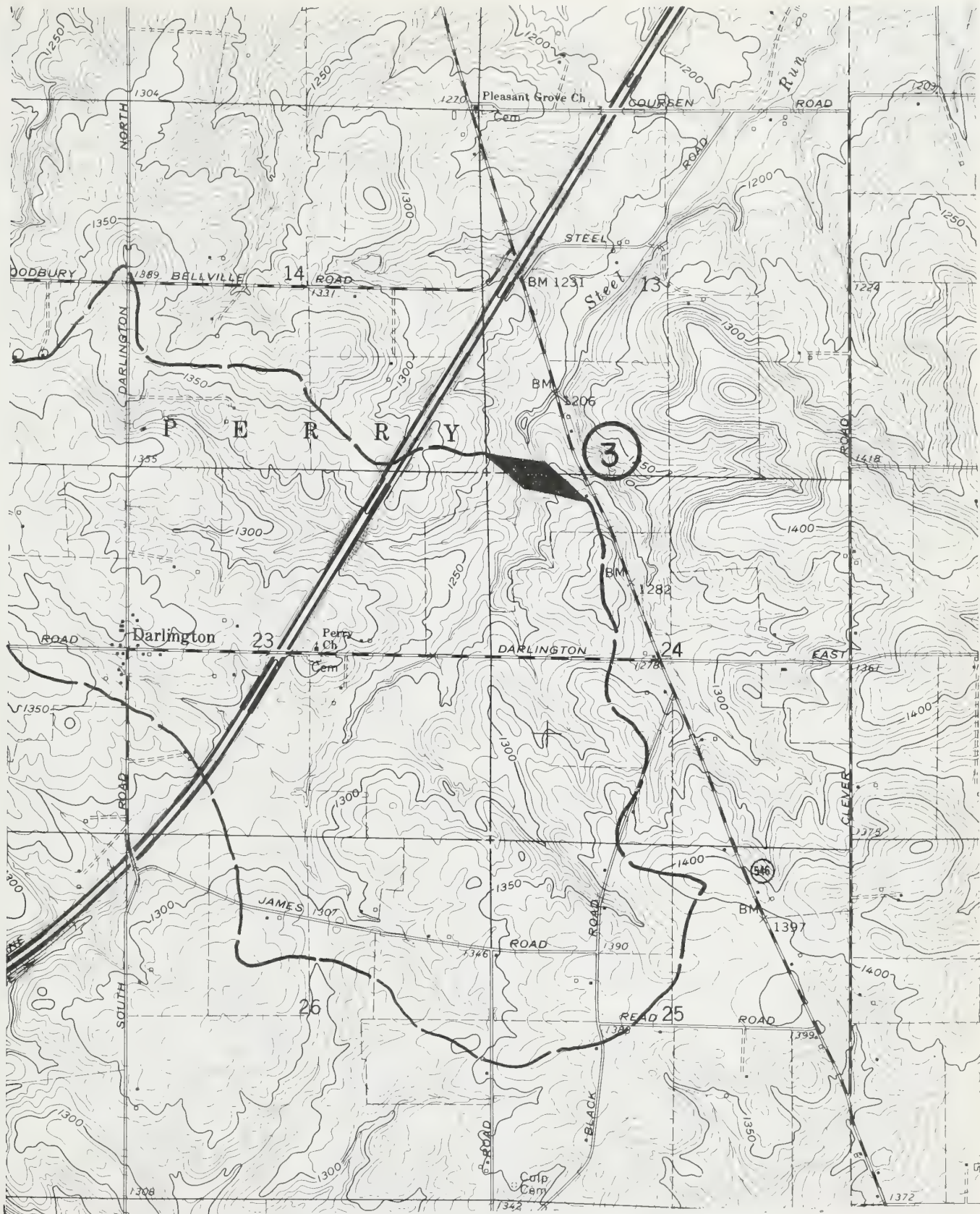
SITE NO. 4B1-2 (18)
 SUBWATERSHED MOHICAN (LAKE FORK)
 LOCATION CO. HOLMES TWP. RIPLEY
 SEC. 32 NE⁴ OF NE⁴
 QUAD. SHREVE
 SCALE 1:24000 C.I. 20 ft.



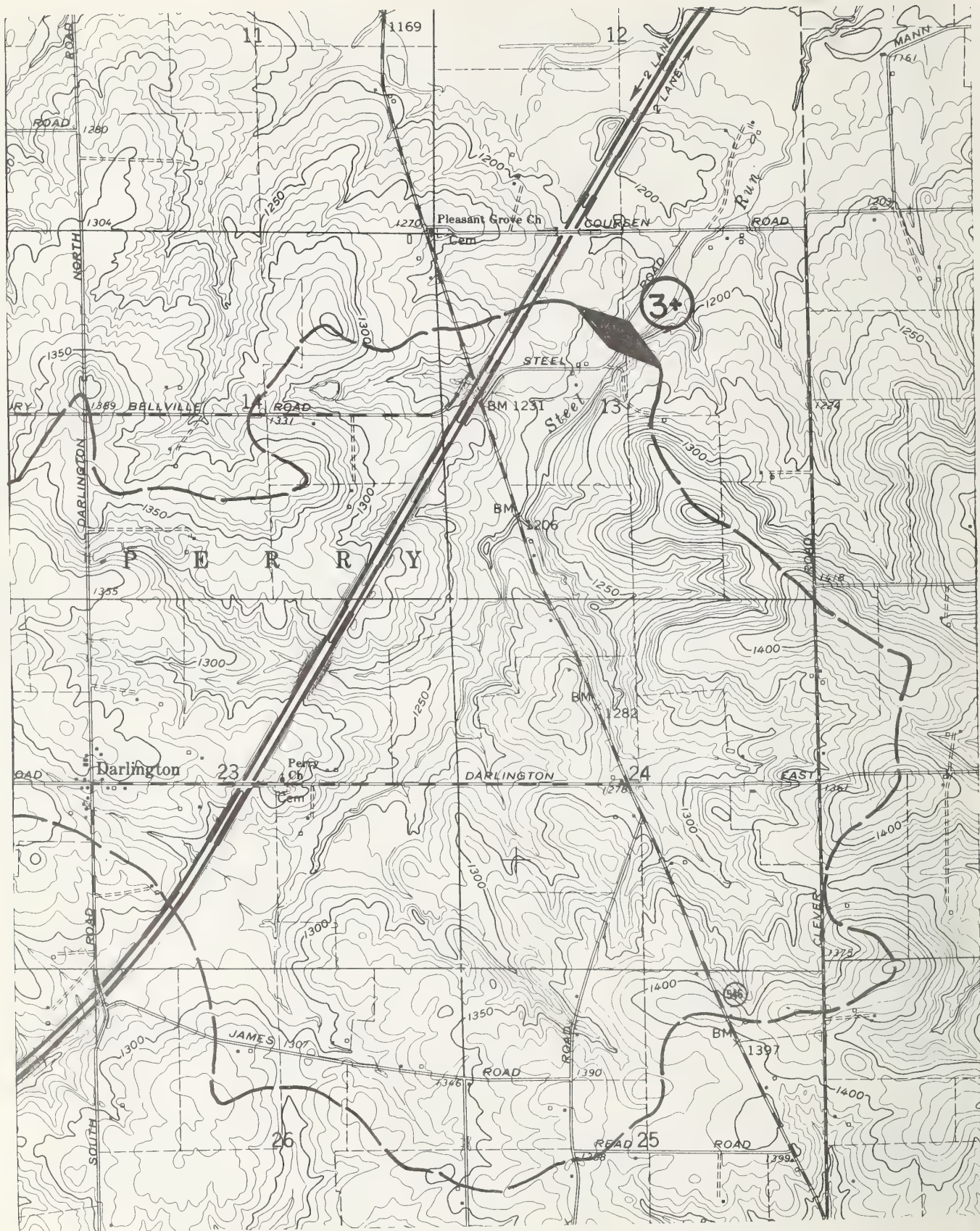
SITE NO. 4B1-2 (19)
 SUBWATERSHED MOHICAN (LAKE FORK)
 LOCATION CO. HOLMES TWP. WASHINGTON
 SEC. 13 SW 1/4 OF SW 1/4
 QUAD. GLENMONT
 SCALE 1:24000 C.I. 20 FT ft.



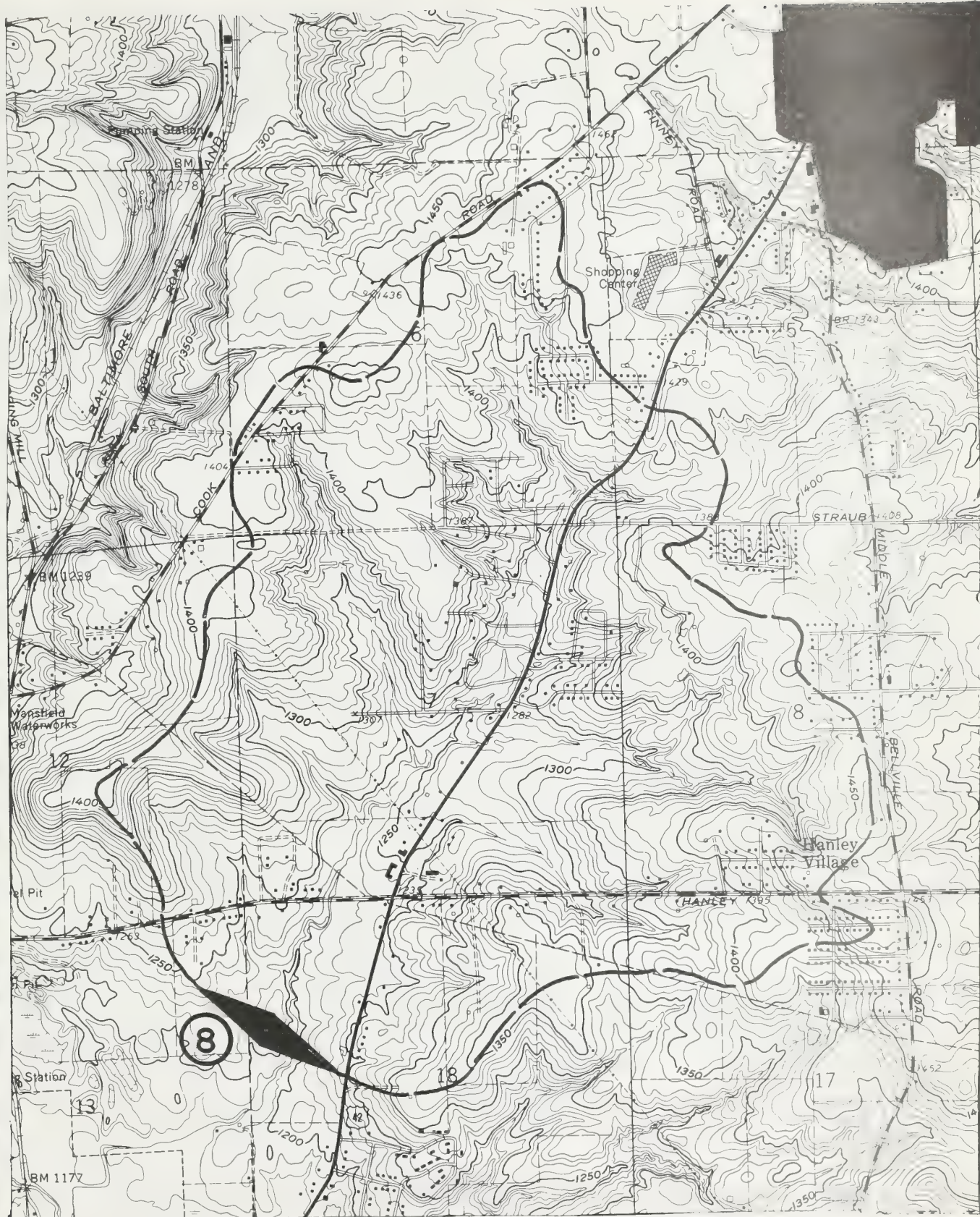
SITE NO. 4B1-3 (1)
 SUBWATERSHED MOHICAN (CLEAR FORK)
 LOCATION CO. MORROW TWP. TROY
 SEC. 31 SW¹ OF #2⁴
 QUAD. BLOOMING GROVE
 SCALE 1:24000 C. I. 10 ft.



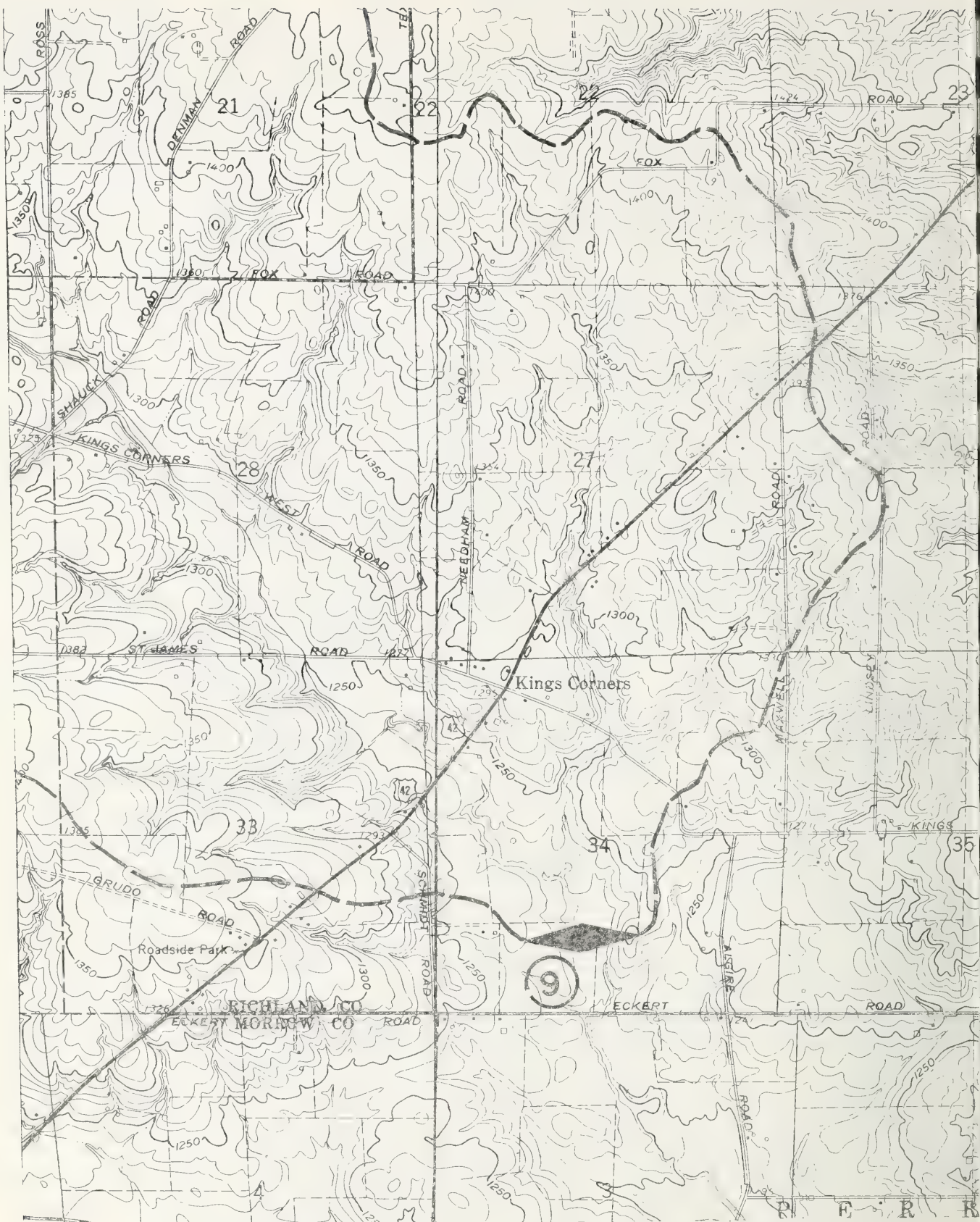
SITE NO. 4BI 3 (3)
 SUBWATERSHED MOHICAN (CLEAR FORK)
 LOCATION CO. RICHLAND TWP. PERRY
 SEC. 24 NW 1/4 OF NW 1/4
 QUAD. BELLVILLE
 SCALE 1:24000 C.I. 10 FT. ft.



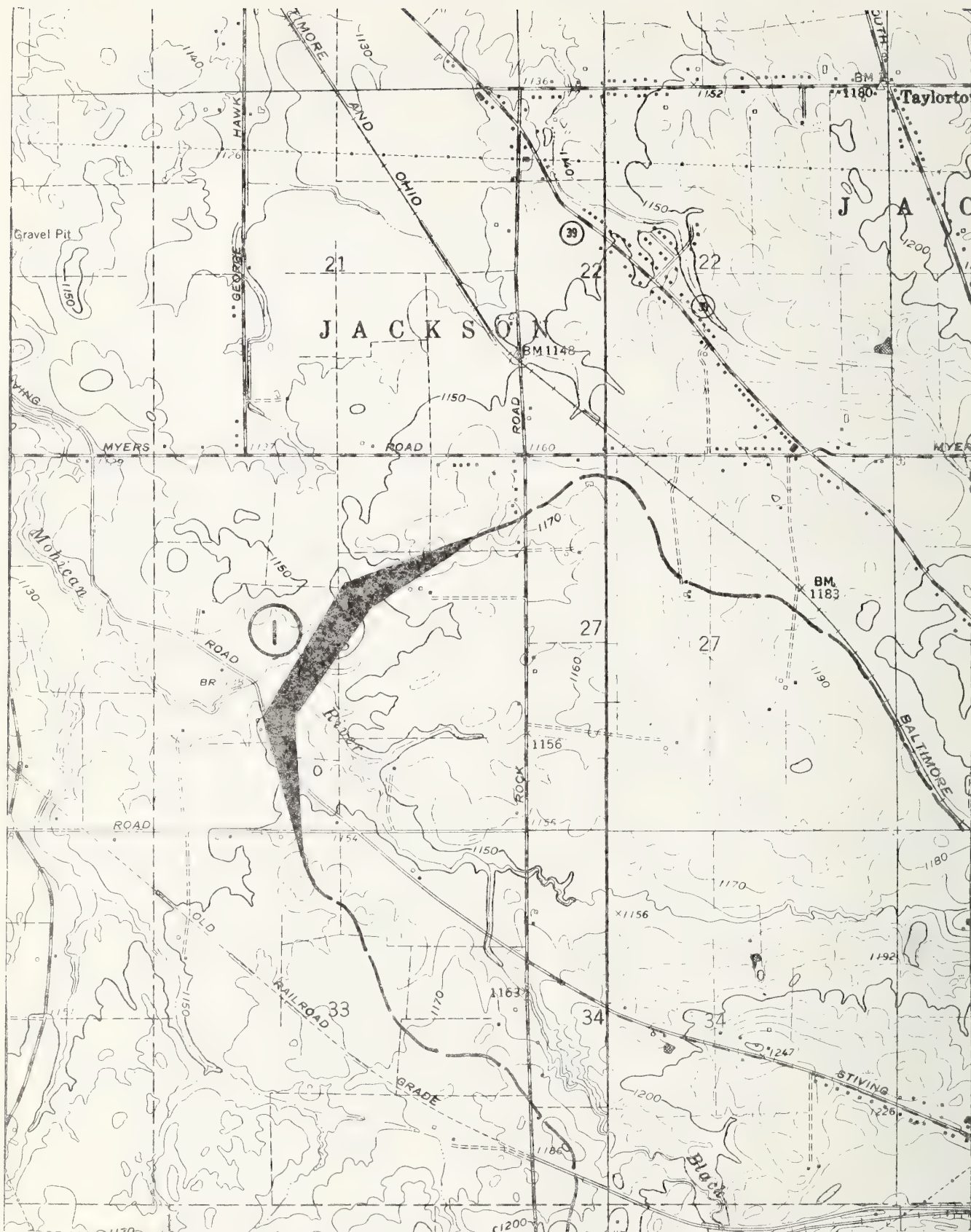
SITE NO. 4B1-3 (3+)
 SUBWATERSHED MOHICAN (CLEAR FORK)
 LOCATION CO. RICHLAND TWP. PERRY
 SEC. 13 SW⁴ OF NE⁴
 QUAD. BELLVILLE
 SCALE 1:24000 C. I. 10 ft.



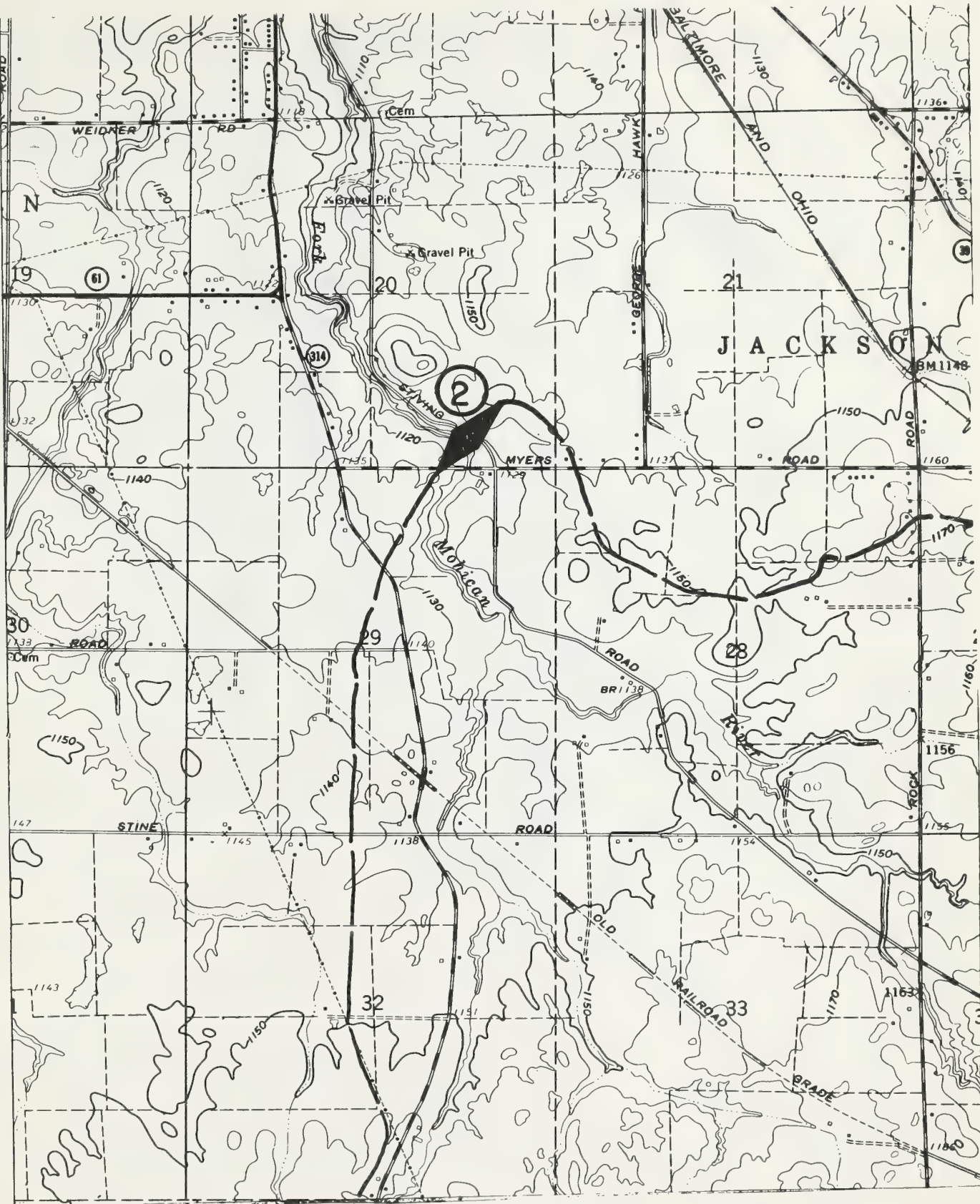
SITE NO. 4B1-3 (8)
 SUBWATERSHED MOHICAN RIVER (CLEAR FORK)
 LOCATION CO. RICHLAND TWP. WASHINGTON
 SEC. 18 SW⁴ OF NW⁴
 QUAD. MANSFIELD
 SCALE 1:24000 C.I. 20 ft.



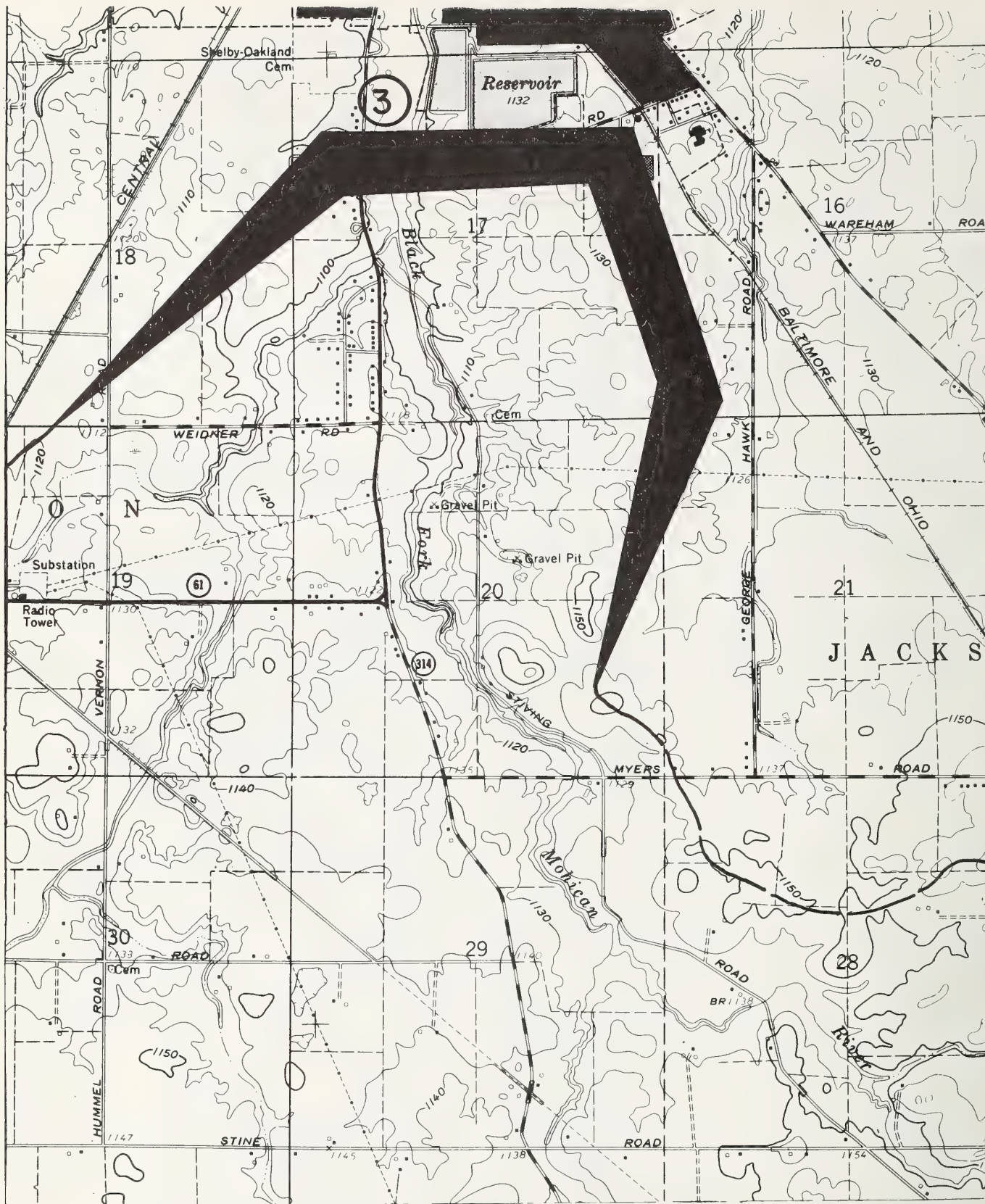
SITE NO. 4B1-3 (9)
 SUBWATERSHED MOHICAN RIVER (CLEAR FORK)
 LOCATION CO. RICHLAND TWP. TROY
 SEC. 34 SE⁴ OF SW⁴
 QUAD. MANSFIELD
 SCALE 1:24000 C.I. 10 ft.



SITE NO. 4B1-4 (1)
 SUBWATERSHED MOHICAN RIVER (BLACK FORD MARSH RUN)
 LOCATION CO. RICHLAND TWP. JACKSON
 SEC. 28 NE⁴ OF SW⁴
 QUAD. CRESTLINE
 SCALE 1:24000 C. I. 10 ft.



SITE NO. 4B1-4 (2)
 SUBWATERSHED MOHICAN R. (BLACK FORK - MARSH RUN)
 LOCATION CO. RICHLAND TWP. SHARON
 SEC. 20 SW 1/4 OF SE 1/4
 QUAD. CRESTLINE
 SCALE 1:24000 C.I. 10 FT. ft.



SITE NO. 4B1-4 (3)

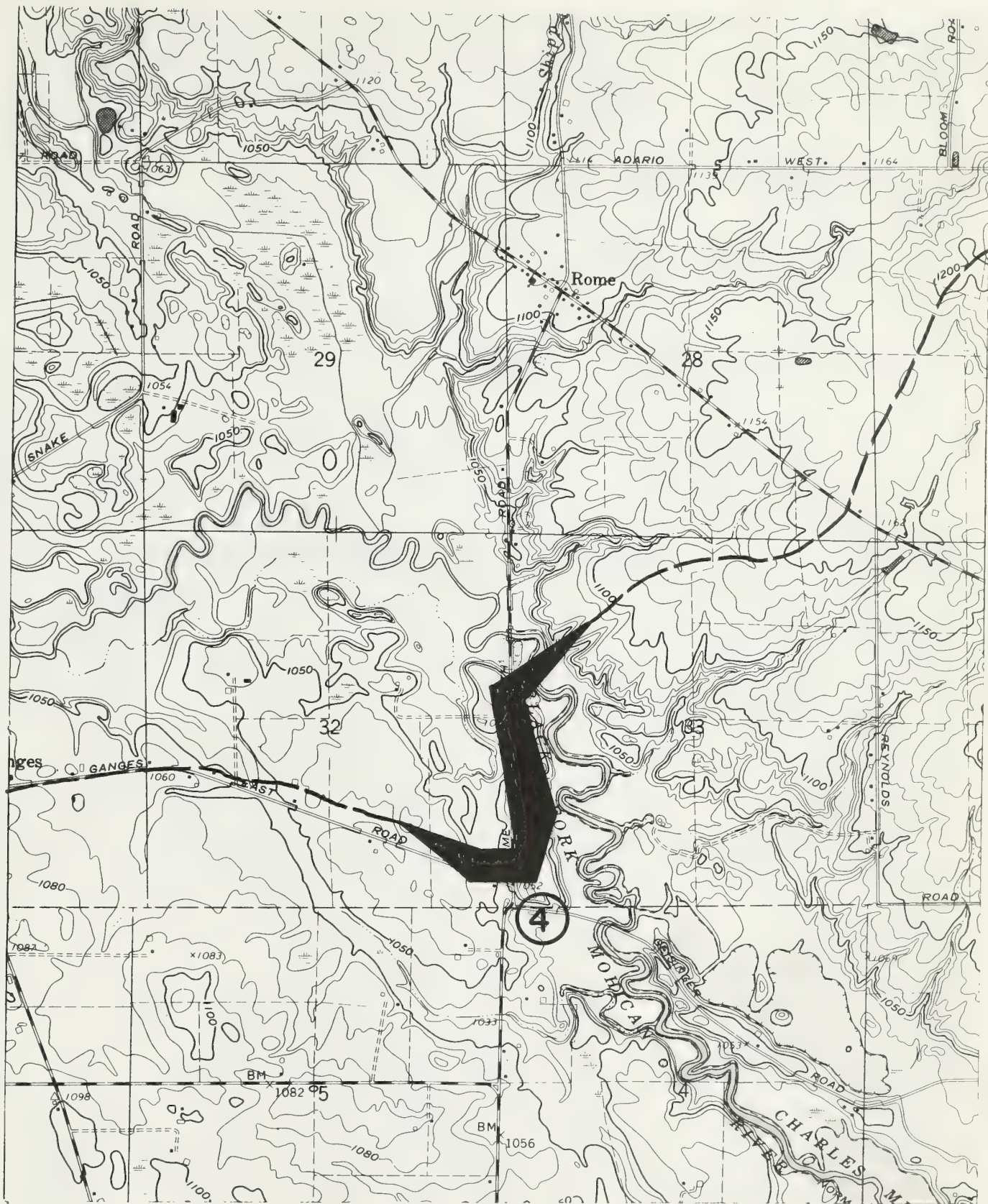
SUBWATERSHED MOHICAN RIVER (BLACK FORK - MARSH RUN)

LOCATION CO. RICHLAND CO TWP. SHARON

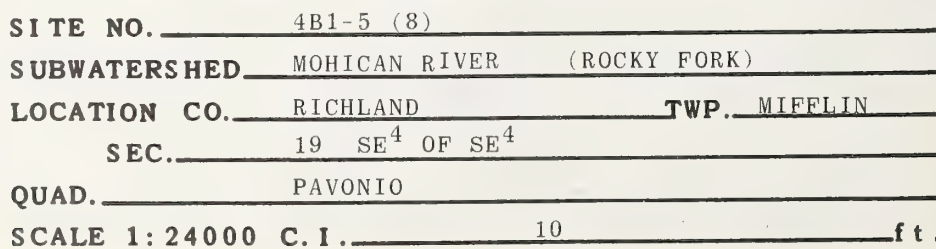
SEC. 17 SE⁴ OF NW⁴

QUAD. CRESTLINE

SCALE 1:24000 C.I. 10 ft.



SITE NO. 4B1-4 (4)
 SUBWATERSHED MOHICAN RIVER (BLACK FORK - MARSH RUN)
 LOCATION CO. RICHLAND TWP. BLOOMING GROVE
 SEC. 33 SW⁴ OF NW⁴
 QUAD. SHILO
 SCALE 1: 24000 C. I. 10 ft.



SCALE 1:24000 C.I. ft



SITE NO. 4B1-5 (9)
 SUBWATERSHED MOHICAN RIVER (ROCKY FORK)
 LOCATION CO. RICHLAND TWP. MONROE
 SEC. 7 NE⁴ OF SE⁴
 QUAD. LUCAS
 SCALE 1:24000 C.I. 20 ft.

**KILLBUCK CREEK
SUB BASIN**



MUSKINGUM RIVER BASIN
KILLBUCK CREEK SUBBASIN
 STATE: OHIO

MEDINA, WAYNE, HOLMES, COSHOCTON COUNTIES

SCALE 1/417,000

POTENTIAL RESERVOIR SITE SIGN AND COST SUMMARY NO. 1

OHIO MUSKINGUM RIVER BASIN

KILLBUCK SUBBASIN

UPPER KILLBUCK WSHD.

ELEVATION (FT MSL) *HGT * (FT) * DAM * (FT) * STORAGE (AC-FT) * SURFACE * (AC) * AREA * (1000 * YDS) * INSTALLATION COST * UNIT COST * GROSS YIELD * (MGD)

NORM EMERG DSGN TOP *MAX * BEN NORM TEMP TOTAL * NORM DSGN * VOL * CONST ENGR L/R PROJ TOTAL * AC-FI ACRE AC-FT * FOR POOL SPWY HIGH OF *HGT * USE POOL FLOOD E-S- * POOL HIGH * CREST * WTR * ADM * STORE BEN BEN * 2 * ALLOC ALLOC STORE * P.C.

SITE CAMEL CR (1+) C DA= 9.21 SQ-MI. ELEV. BOTTOM C/L PROFILE= 974.0 POTENTIAL USES-FC RE

990.3 1006.9 1010 1015 * 41 * 231 1287 1557 * 36 151 * 119 * 280 20 157 71 528 * 339 * 1011.4 1018.4 1022 1027 * 53 * 1970 2201 1296 3536 * 160 255 * 258 * 532 32 269 96 929 * 263 3235 472 * 2.00 1016.0 1021.8 1025 1030 * 56 * 2790 3021 1293 4353 * 202 281 * 307 * 620 37 292 112 1060 * 244 3361 380 * 2.55

SITE KILLBUCK CR (2) B DA= 9.54 SQ-MI. ELEV. BOTTOM C/L PROFILE= 987.0 POTENTIAL USES-FC RE

1031.8 1036.6 1039 1043 * 56 * 2950 3164 1282 4486 * 233 368 * 211 * 491 30 322 89 931 * 208 2632 316 * 2.63 1027.3 1033.6 1036 1040 * 53 * 2035 2249 1277 3567 * 168 315 * 179 * 419 26 289 81 816 * 229 2766 401 * 2.03 1036.0 1039.8 1042 1046 * 59 * 4070 4284 1287 5612 * 313 430 * 250 * 569 34 359 102 1064 * 190 2466 261 * 3.30 1038.5 1041.8 1044 1047 * 60 * 4904 5117 1295 6453 * 360 474 * 277 * 624 37 384 112 1157 * 179 2443 236 * 3.78

SITE KILLBUCK (2A) C DA= 7.23 SQ-MI. ELEV. BOTTOM C/L PROFILE= 998.0 POTENTIAL USES-FC RE

1017.0 1036.9 1041 1046 * 48 * 174 1121 1325 * 22 131 * 187 * 399 26 102 79 606 * 457 * 1040.3 1048.1 1052 1057 * 59 * 1540 1713 1183 2927 * 124 220 * 343 * 663 40 209 119 1031 * 352 4365 670 * 1.52 1049.9 1055.1 1058 1064 * 66 * 3082 3256 1192 4478 * 198 300 * 482 * 886 53 313 160 1411 * 315 4900 458 * 2.50 1056.3 1060.4 1063 1068 * 70 * 4625 4798 1192 6021 * 277 367 * 613 * 1102 66 396 198 1762 * 293 4892 381 * 2.99 1058.6 1062.4 1065 1070 * 72 * 5323 5497 1192 6719 * 306 393 * 660 * 1182 71 410 213 1876 * 279 4848 352 * 2.99

SITE I.R.-71 (3) B DA= 2.22 SQ-MI. ELEV. BOTTOM C/L PROFILE= 953.0 POTENTIAL USES-FC

970.0 988.0 990 993 * 40 * 77 207 297 * 7 21 * 71 * 171 15 11 51 247 * 833

POTENTIAL USE ABBREVIATIONS ALL DATA BASED ON PRELIMINARY RESERVOIR LOCATIONS.

FC FLOOD CONTROL LF LOW FLOW AUGMENTATION SQ SEDIMENT CONTROL FW FISH AND WILDLIFE LL LAKE LEVEL REGULATION WQ WATER QUALITY CONTROL IR IRRIGATION RE RECREATION WS WATER SUPPLY

PRICE BASE YEAR 1970

OHIO MUSKINGUM RIVER BASIN KILLBUCK SUBBASIN SALT CR WSHD

[illegible]

[illegible]

POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 1

OHIO MUSKINGUM RIVER BASIN

KILLBUCK SUBBASIN

DOUGHTY CR. WSHD.

ELEVATION (FT MSL)	*HGT *DAM *(FT)*	*STORAGE (AC-FT)	*SURFACE *AREA *(AC)	*FILL *(1000) *YDS)	*INSTALLATION COST	*UNIT COST	*GROSS *YIELD	*(\$ PER *(MGD)
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NORM EMERG DSGN TOP *MAX	*BEN	*NORM TEMP	*TOTAL	*NORM DSGN	*VOL	*CONST ENGR L/R PROJ TOTAL	*AC-FT	*ACRE	*AC-FT	*FOR
POOL SPWY HIGH OF	*HGT	*USE	*POOL FLOOD E.S.	*POOL HIGH	*WTR	*ADM	*STORE BEN	*BEN	*2	
CREST WATER DAM	*CREST	*WTR	*WTR	*WTR	*WTR	*WTR	*ALLOC	*ALLOC	*STORE	*P.C.

SITE TROYER HOLLOW (1+)	*	*	B DA=	19.79 SQ.MI.	ELEV. BOTTOM C/L PROFILE=	913.0	POTENTIAL USES-FC	*												
939.0	976.0	980	991	78	454 2752	3280	35	152	249	*	508	30	58	91	688*	210	*			
970.4	979.0	982	985	72	2100	2554 1055	3683	114	169	206	*	573	34	63	103	773*	210	3854	368*	2.82
978.5	985.0	988	991	78	3155	3609 1055	4739	146	223	250	*	654	39	78	118	889*	188	4046	282*	3.66
984.8	989.9	993	996	83	4211	4665 1055	5794	194	265	286	*	743	45	90	134	1011*	174	3788	240*	4.45
989.5	993.9	997	1000	87	5237	5691 1055	6820	235	299	318	*	816	49	98	147	1110*	163	3623	212*	5.14

SITE MILITARY RUN (3+)													B DA=													4.84 SQ.MI.													ELEV. BOTTOM C/L PROFILE=													874.0													POTENTIAL USES-FC RE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

SITE OAK HILL CH. (6)		*	*	B DA=	2.26 SQ.MI.	ELEV. BOTTOM C/L PROFILE=	848.0	POTENTIAL USES-FC RE	*												
861.1	870.5	873	879	31	*	75	274	367	14	59	34	114	10	16	34	175	478	*			
875.5	879.5	881	886	38	*	580	655	276	949	67	89	65	177	15	25	52	269	284	2445	464	0.56
881.6	884.8	886	891	43	*	1064	1139	277	1434	90	108	89	222	17	35	63	337	235	2772	317	0.86
886.5	889.1	891	895	47	*	1548	1624	278	1920	109	124	114	271	19	48	70	408	212	3019	263	1.04
894.4	896.9	898	902	54	*	2517	2592	339	2950	139	152	173	371	24	62	78	534	181	3277	212	1.04
		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

SITE	BUCKS	RUN (7)	*	*	B	DA=	3.09	SQ.-MI.	*	ELEV.	BOTTOM	C/L	PROFILE=	833.0	POTENTIAL	USES-FC	RE	*			
845.8	857.5	861	868	35	*	97	399	516	*	20	60	54	*	152	14	17	46	229*	443	*	
863.5	869.3	871	877	44	*	780	877	442	1339	*	98	100	*	252	18	29	67	367*	274	3032	470* 0.75
871.3	875.6	877	883	50	*	1439	1536	442	1998	*	99	120	*	327	22	36	75	461*	231	3354	320* 1.17
877.3	880.9	882	887	54	*	2098	2196	442	2657	*	121	138	*	392	25	43	79	539*	203	3526	257* 1.44
886.6	889.6	891	895	62	*	3417	3514	442	3976	*	155	170	*	518	31	54	93	697*	175	3858	204* 1.44

FC FLOOD CONTROL	LF LOW FLOW AUGMENTATION	SD SEDIMENT CONTROL	WS WATER SUPPLY	PRICE BASE YEAR 1970
FW FISH AND WILDLIFE	LL LAKE LEVEL REGULATION	WQ WATER QUALITY CONTROL	WS WATER SUPPLY	
IR IRRIGATION	RE RECREATION	WS WATER SUPPLY		

ALL DATA BASED ON PRELIMINARY RESERVOIR LOCATIONS.

POTENTIAL RESERVOIR SITE IGN AND COST SUMMARY NO. 1

OHIO MUSKINGUM RIVER BASIN										KILLBUCK SUBBASIN										BLACK CR WSHD									
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OHIO MUSKINGUM RIVER BASIN

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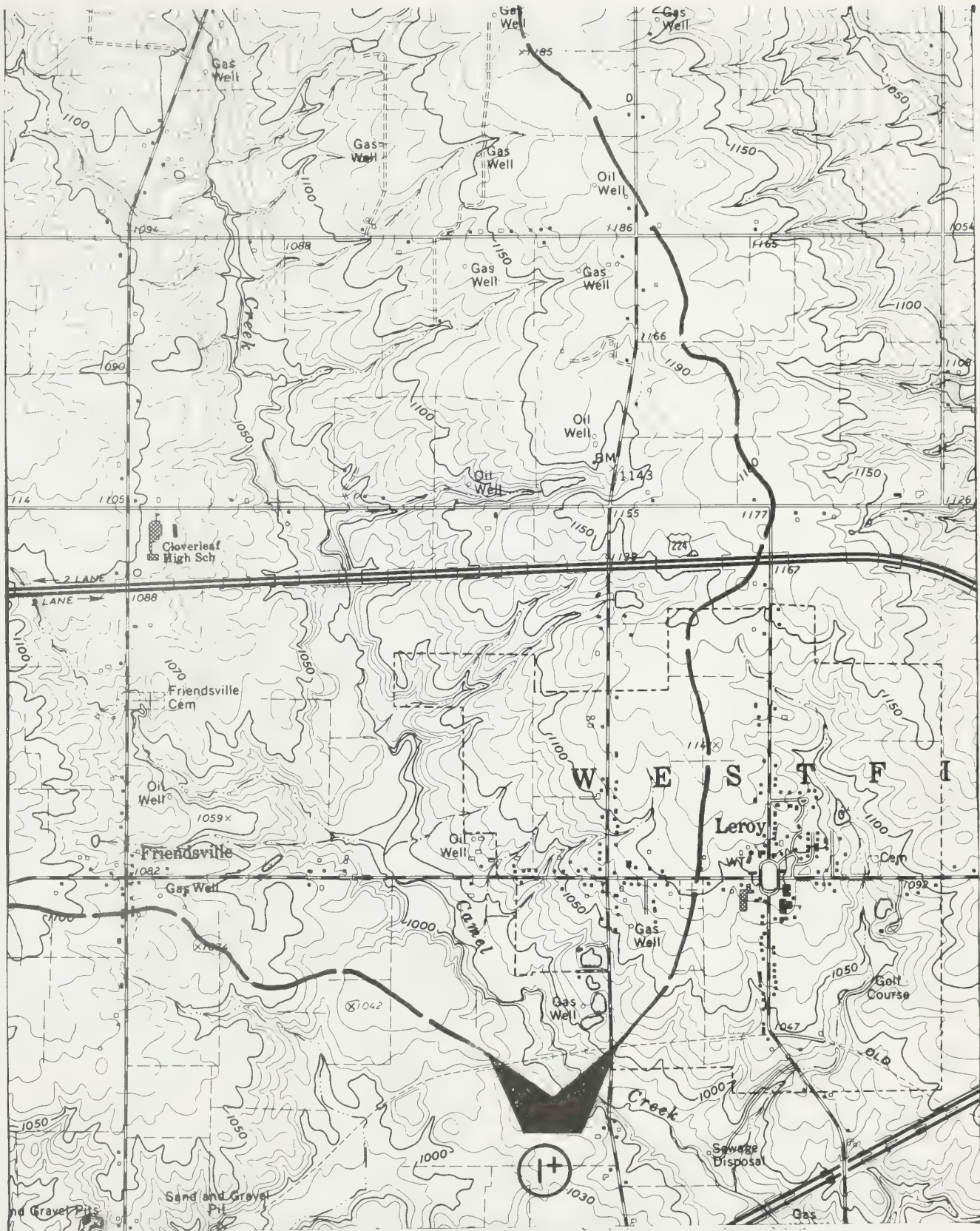
POTENTIAL USE ABBREVIATIONS				ALL DATA BASED ON PRELIMINARY RESERVOIR LOCATIONS.		PRICE BASE YEAR 1970
FC	FLOOD CONTROL	LF	LOW FLOW AUGMENTATION	SD	SEDIMENT CONTROL	
FH	FISH AND WILDLIFE	LL	LAKE LEVEL REGULATION	WQ	WATER QUALITY CONTROL	
IR	IRRIGATION	RE	RECREATION	WS	WATER SUPPLY	

POTENTIAL RESERVOIR SITE SIGN AND COST SUMMARY NO. 1

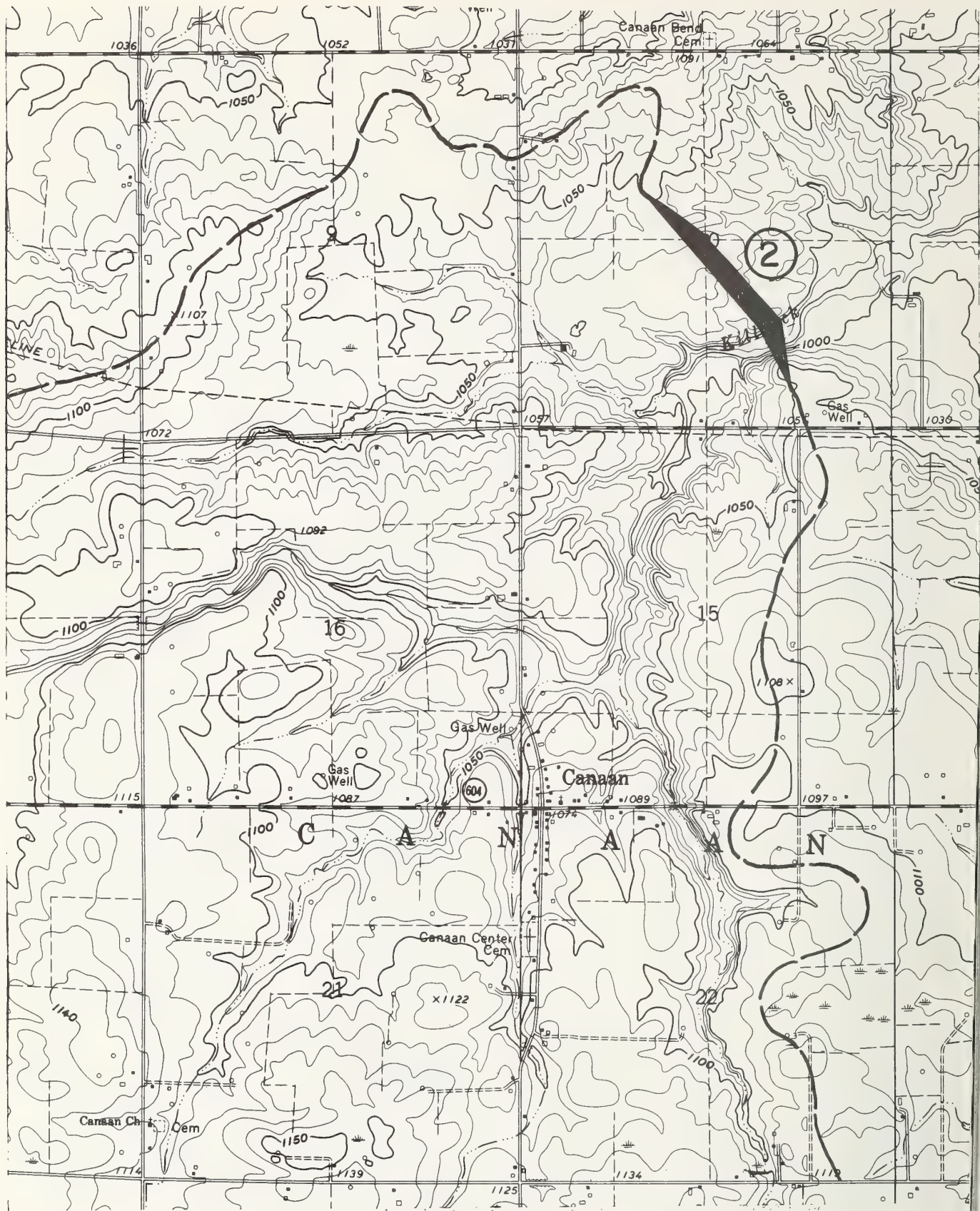
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BIG RUN

[illegible]



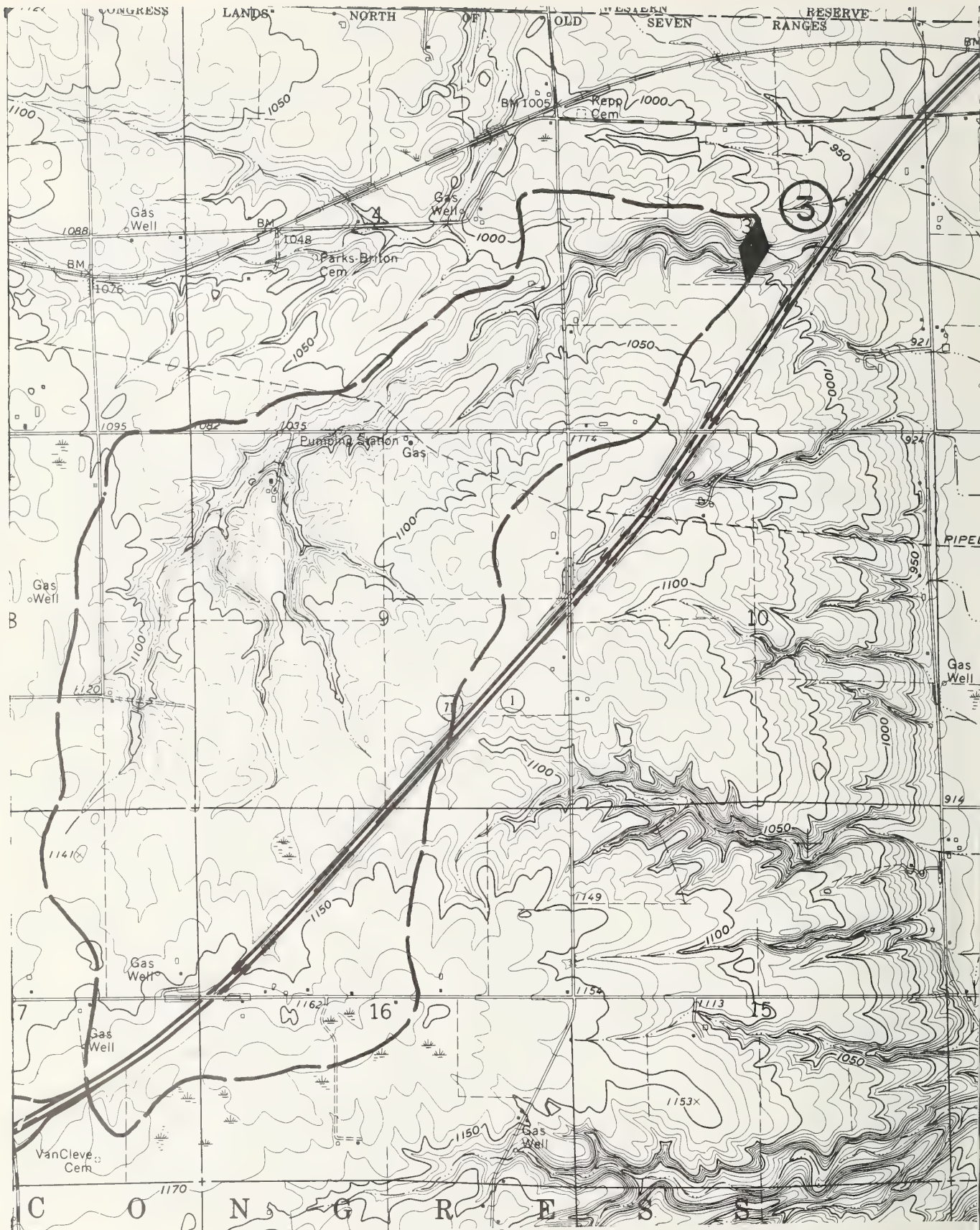
SITE NO. 4B-3 5 (1)
 SUBWATERSHED KILLBUCK (UPPER KILLBUCK)
 LOCATION CO. MEDINA TWP. WESTFIELD
 SEC. 0.75 MI. SW OF LEROY
 QUAD. LEROY
 SCALE 1:24000 C.I. 10 ft.



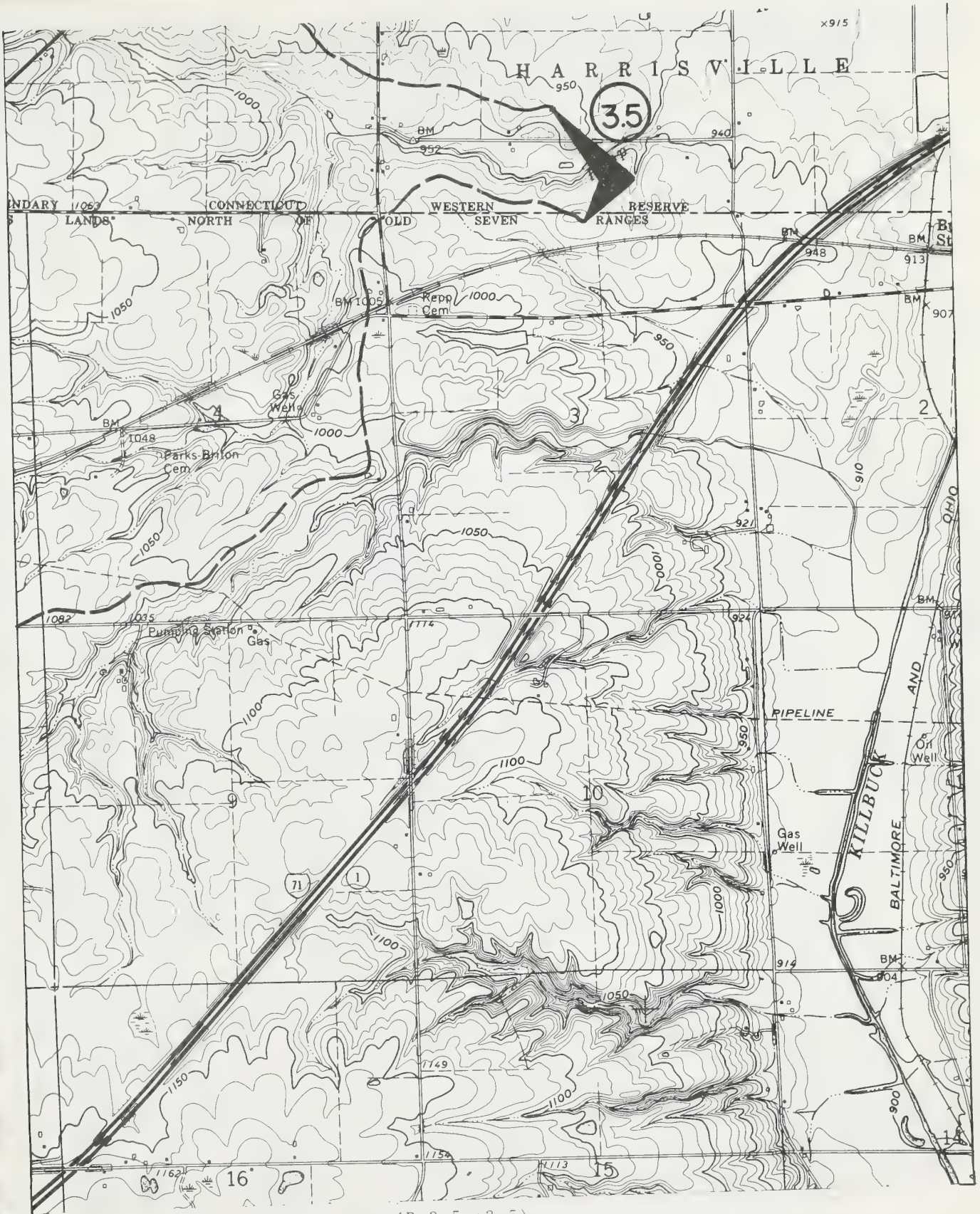
SITE NO. 4B-3.5 (2)
 SUBWATERSHED KILLBUCK (UPPER KILLBUCK)
 LOCATION CO. WAYNE TWP. CRESTON
 SEC. 10 SW⁴ OF NE⁴
 QUAD. CRESTON
 SCALE 1:24000 C. I. 10 ft.



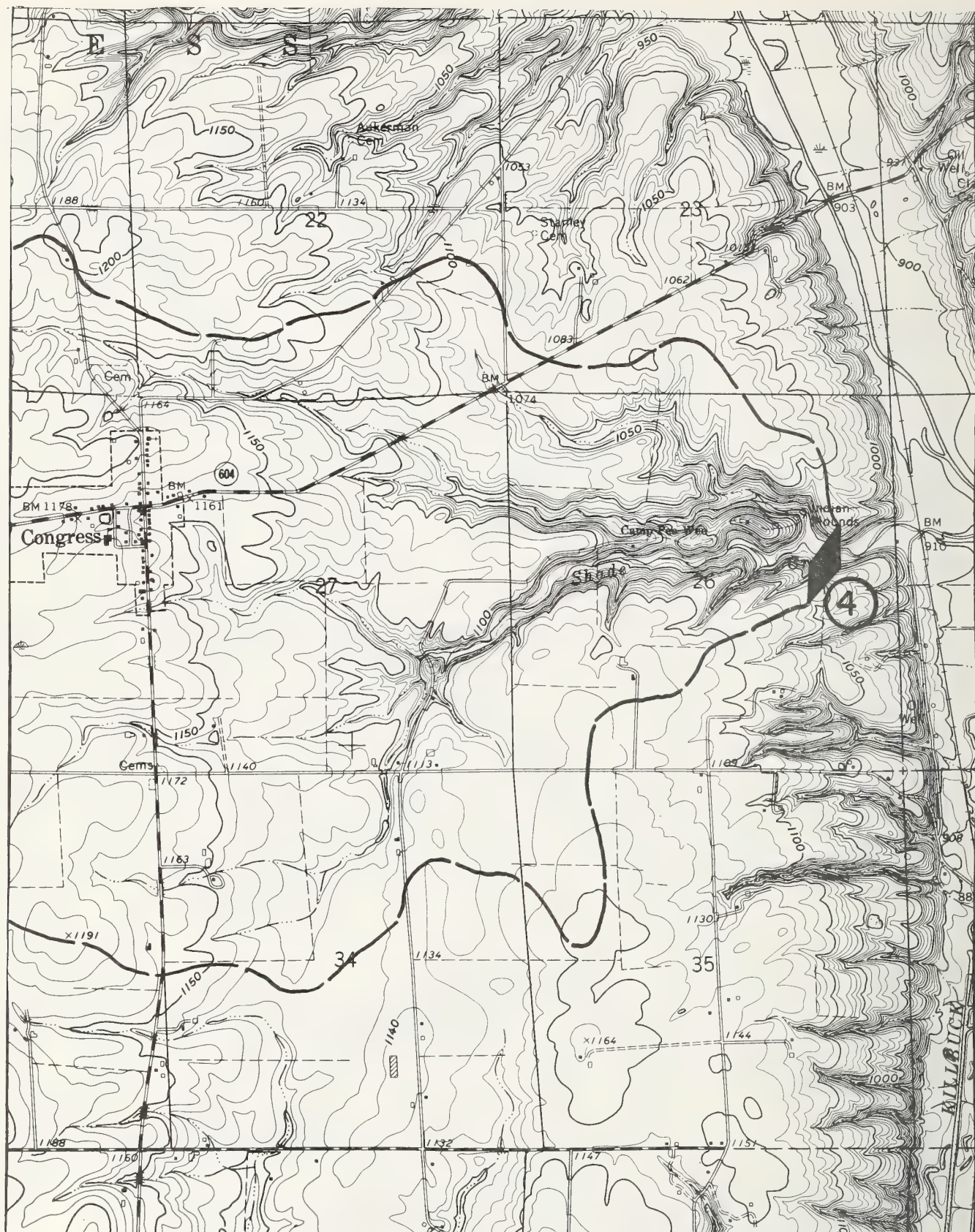
SITE NO. 4B-3.5 (2A)
SUBWATERSHED KILLBUCK (UPPER KILLBUCK)
LOCATION CO. WAYNE TWP. CANAAN
SEC. 15 NE¹ OF NW⁴
QUAD. CRESTON
SCALE 1:24000 C.I. 10 ft.



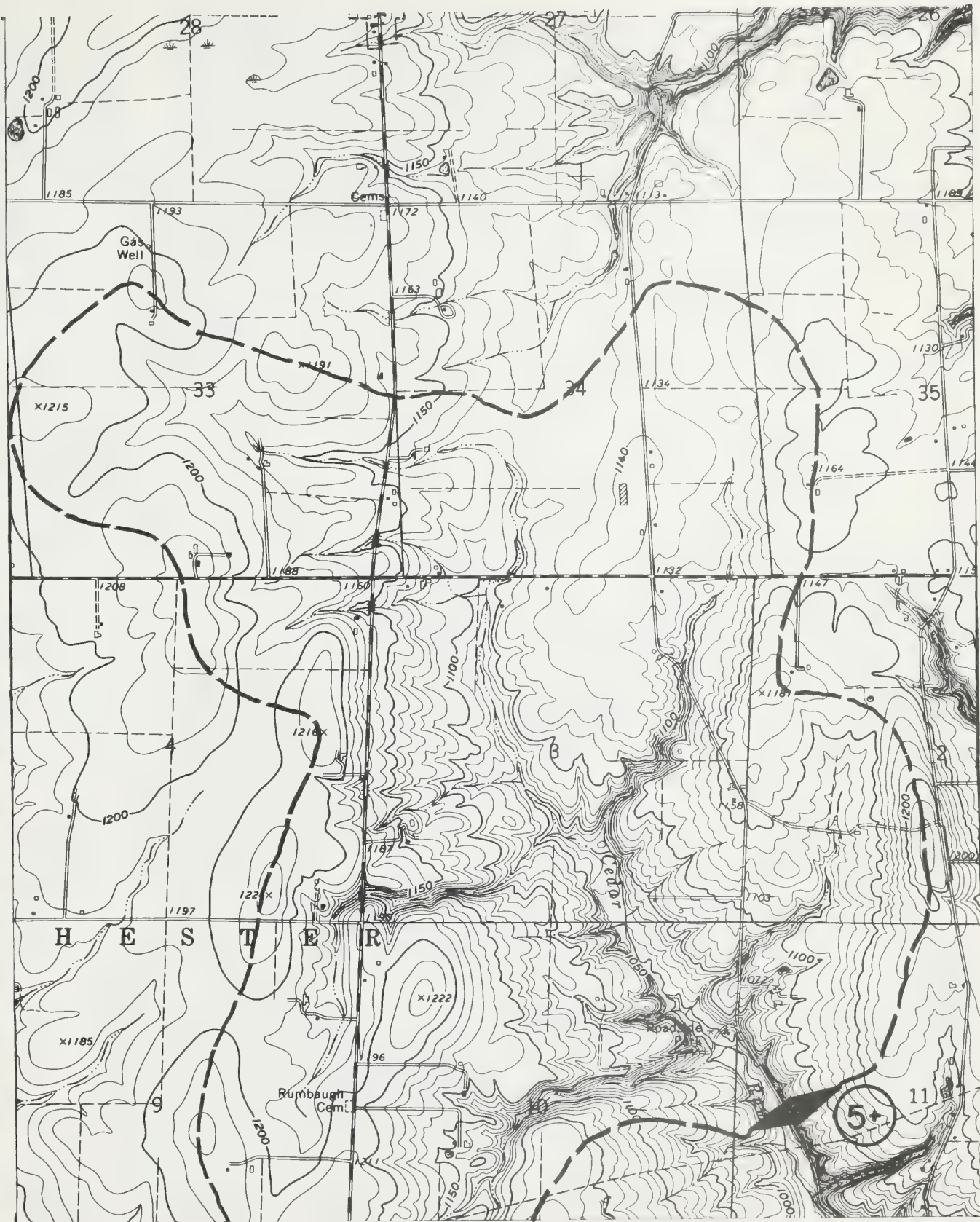
SITE NO. 4B-3.5 (3)
 SUBWATERSHED KILLBUCK (UPPER KILLBUCK)
 LOCATION CO. WAYNE TWP. CONGRESS
 SEC. 3 NW⁴ OF SE⁴
 QUAD. WEST SALEM
 SCALE 1:24000 C.I. 10 ft.



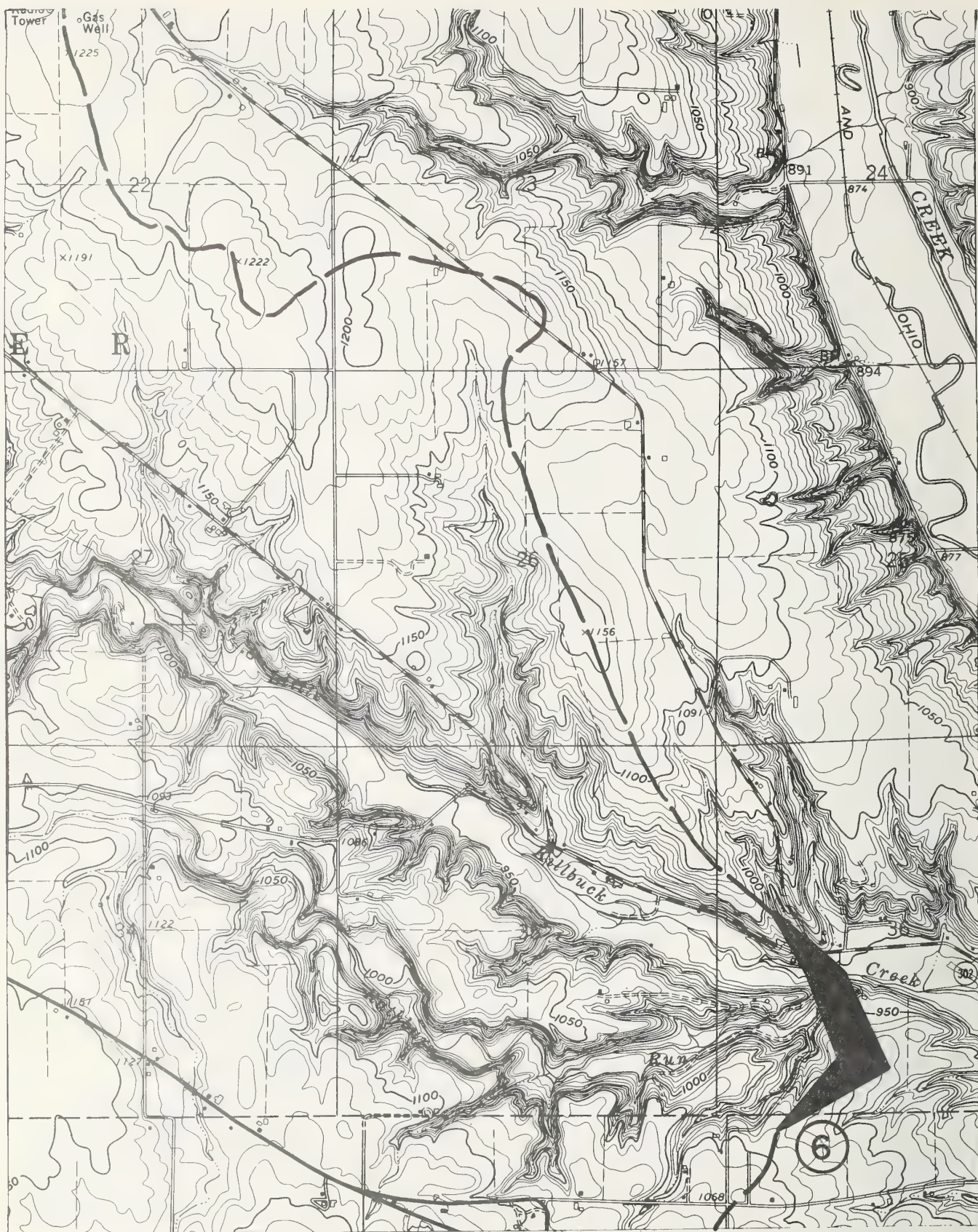
SITE NO. 4B-3.5 (3-5)
SUBWATERSHED KILLBUCK (UPPER KILLBUCK)
LOCATION CO. MEDINA TWP. HARRISVILLE
SEC. 2 MILES WEST OF BURBANK
QUAD. WEST SALEM
SCALE 1:24000 C. I. 10 ft.



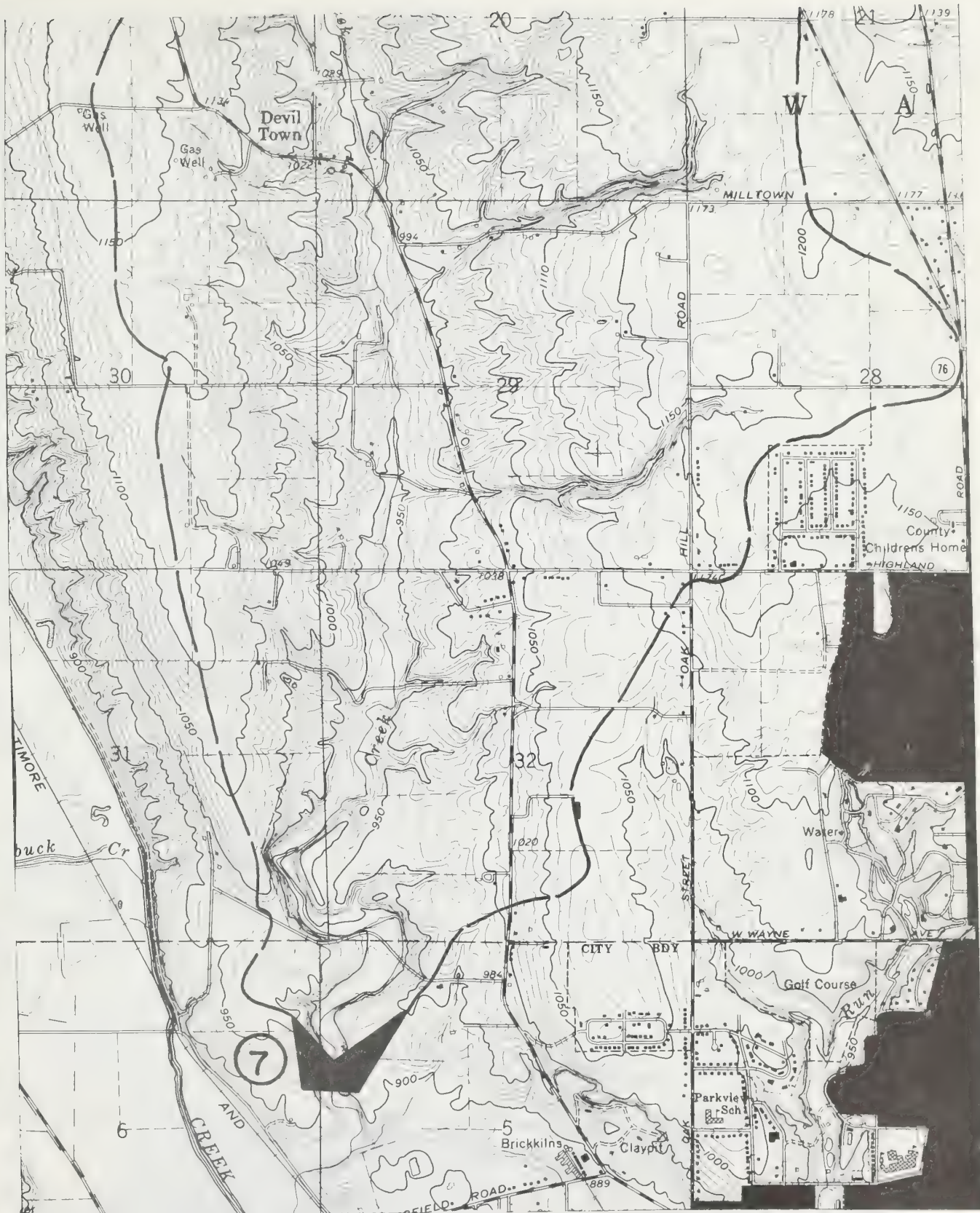
SITE NO. 4B 3.5 (4)
 SUBWATERSHED KILLBUCK (UPPER KILLBUCK)
 LOCATION CO. WAYNE TWP. CONGRESS
 SEC. 26 SE⁴ OF NE⁴
 QUAD. WEST SALEM
 SCALE 1:24000 C. I. 10 ft.



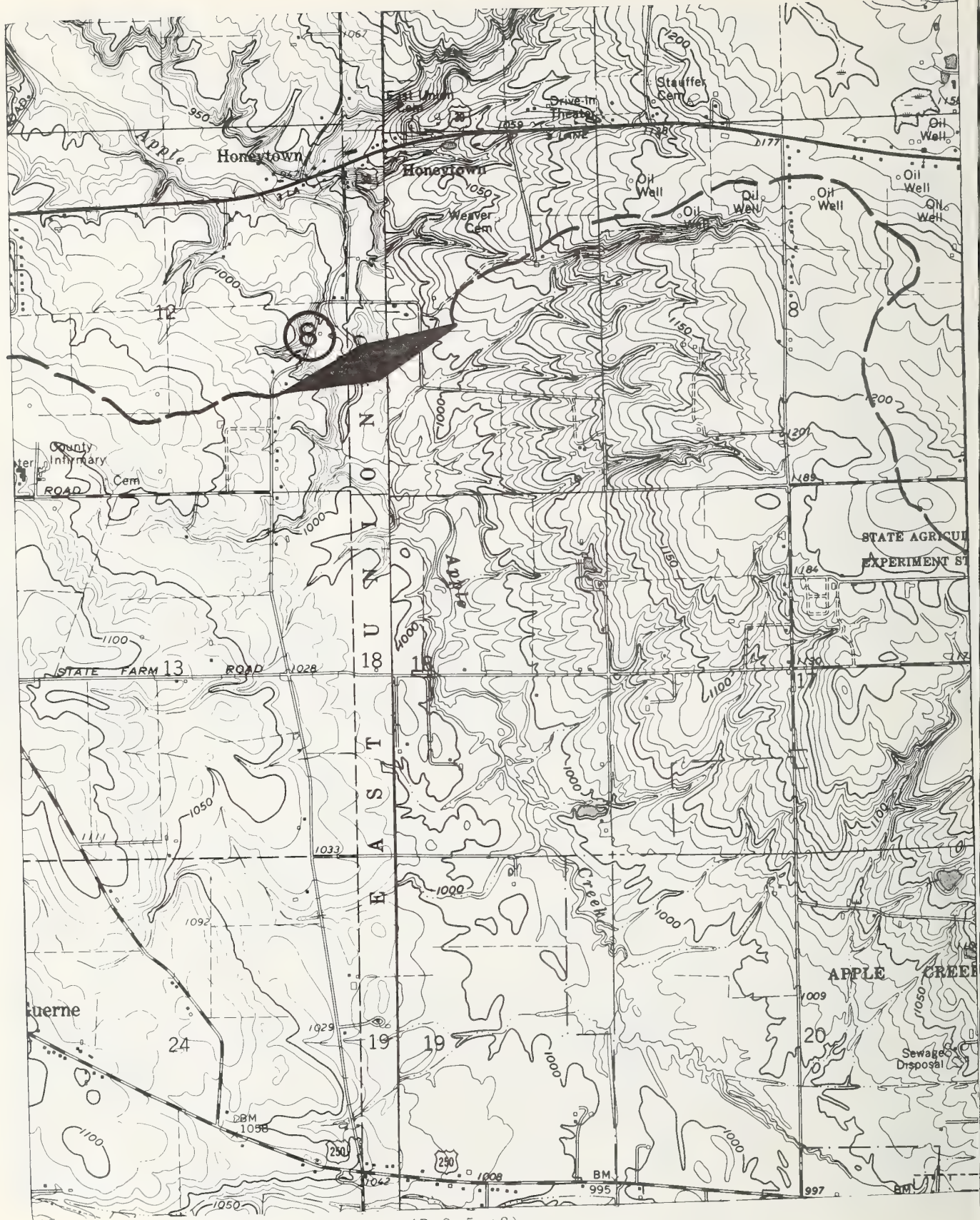
SITE NO. 4B-3.5 (5+)
 SUBWATERSHED KILLBUCK (UPPER KILLBUCK)
 LOCATION CO. WAYNE TWP. CHESTER
 SEC. 11 NE⁴ OF SW⁴
 QUAD. WEST SALEM
 SCALE 1:24000 C.I. 10 ft.



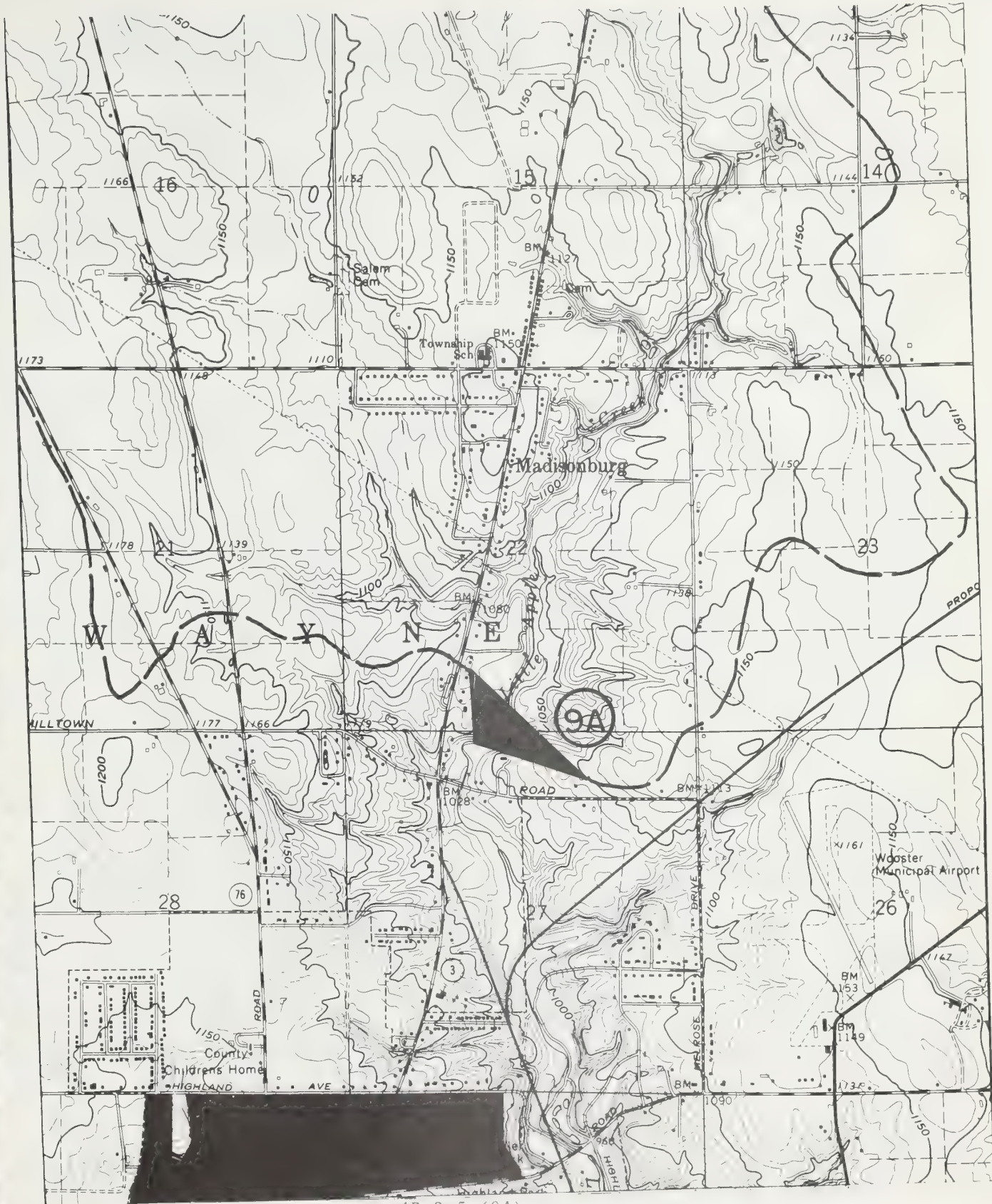
SITE NO. 4B-3.5 (6)
 SUBWATERSHED KILLBUCK (UPPER KILLBUCK)
 LOCATION CO. WAYNE TWP. CHESTER
 SEC. 36 NE⁴ OF SW⁴
 QUAD. NEW PITTSBURG
 SCALE 1:24000 C.I. 10 ft.



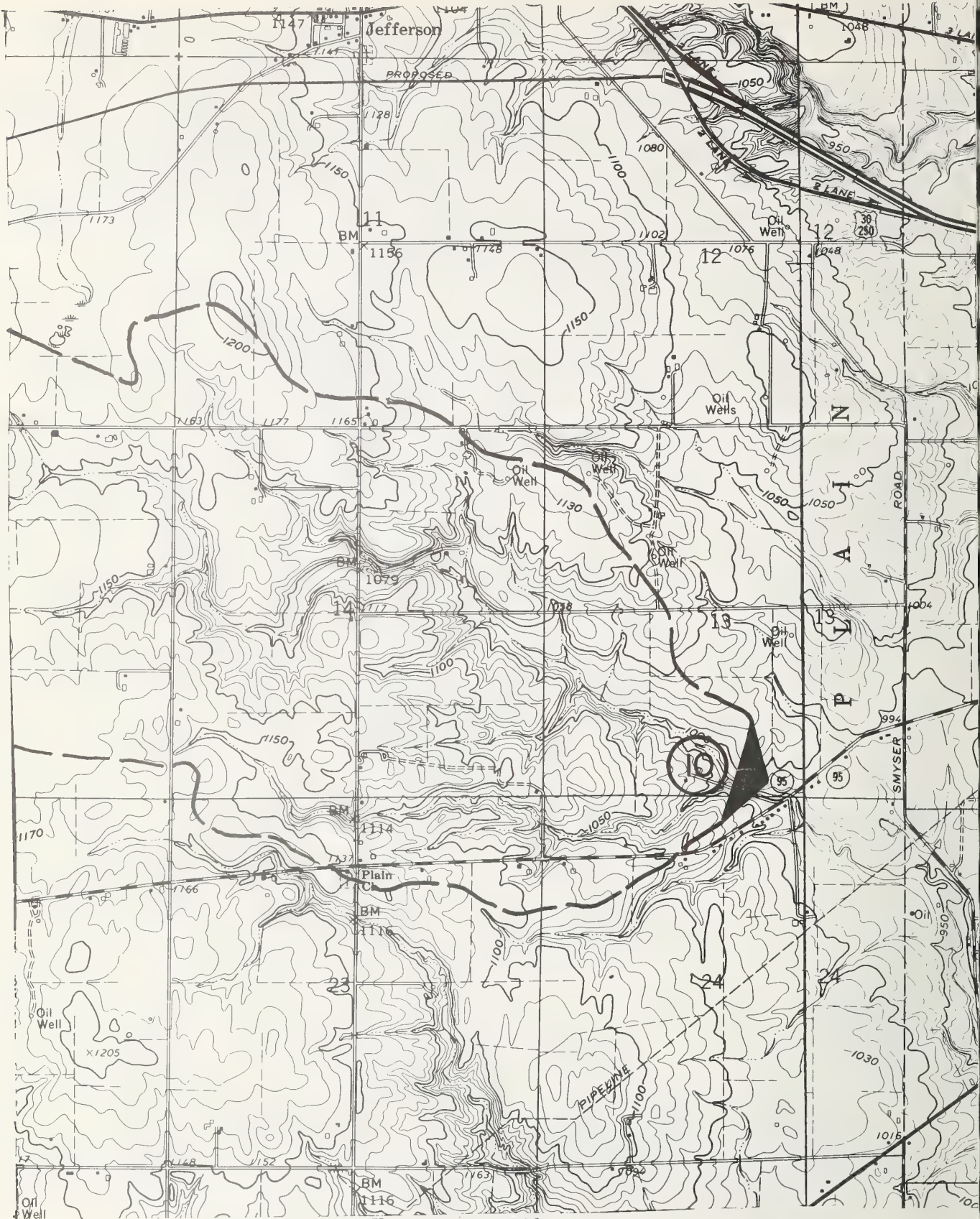
SITE NO. 4B 3 5 (7)
 SUBWATERSHED KILLBUCK (UPPER KILLBUCK)
 LOCATION CO. WAYNE TWP. WOOSTER
 SEC. 5 SW⁴ OF NW⁴
 QUAD. WOOSTER
 SCALE 1:24000 C.I. 10 ft.



SITE NO. 4B-3.5 (8)
 SUBWATERSHED KILLBUCK (UPPER KILLBUCK)
 LOCATION CO. WAYNE TWP. EAST UNION
 SEC. 7 NW⁴ OF SW⁴
 QUAD. WOOSTER
 SCALE 1:24000 C.I. 10 ft.



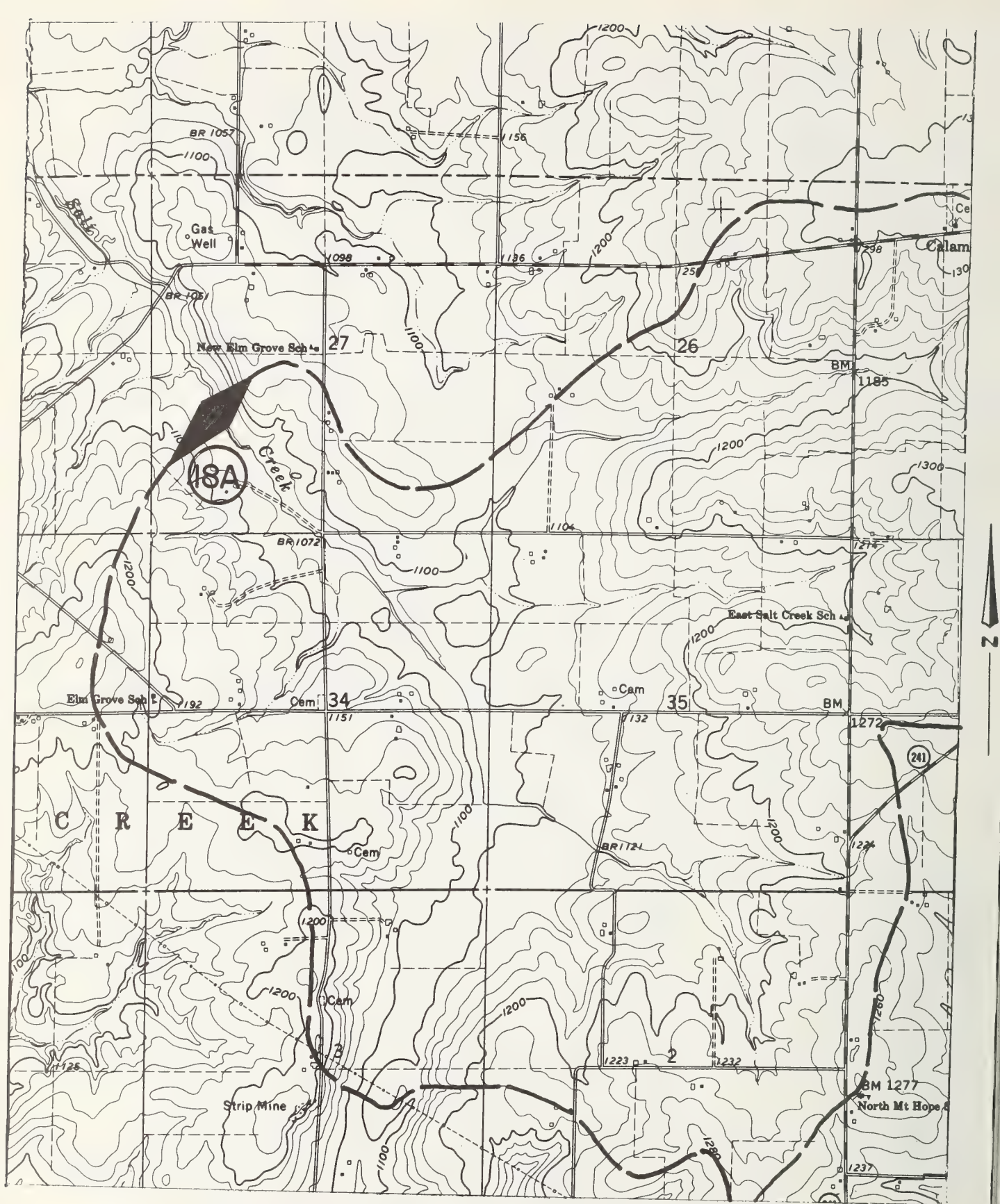
SITE NO. 4B-3.5 (9A)
 SUBWATERSHED KILLBUCK (UPPER KILLBUCK)
 LOCATION CO. WAYNE TWP. WAYNE
 SEC. 27 NW⁴ OF NE⁴
 QUAD. WOOSTER
 SCALE 1:24000 C.I. 10 ft.



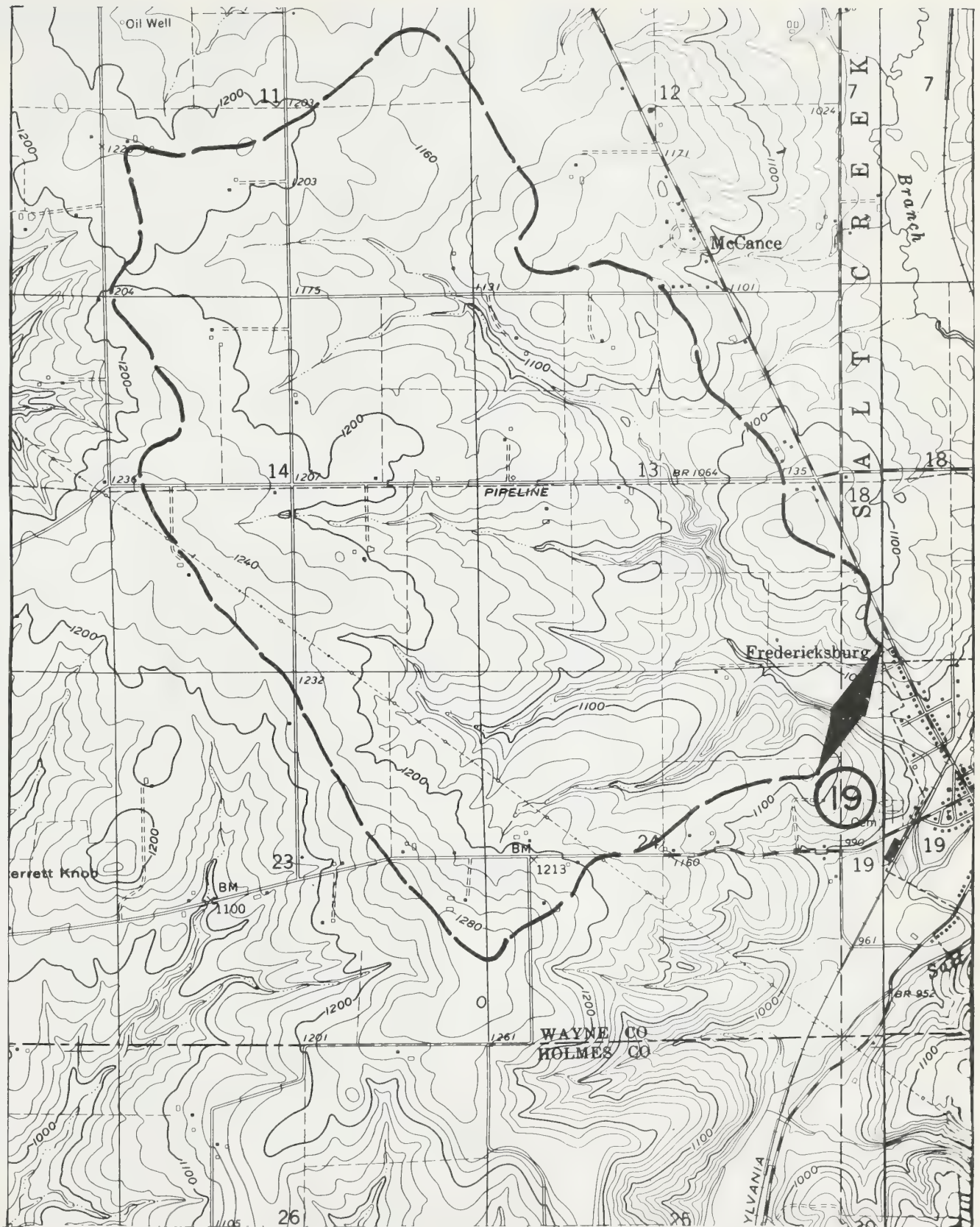
SITE NO. 4B-3.5 (10)
 SUBWATERSHED KILLBUCK (UPPER KILLBUCK)
 LOCATION CO. WAYNE TWP. PLAIN
 SEC. 13 SW⁴ OF SE⁴
 QUAD. NEW PITTSBURG
 SCALE 1:24000 C.I. 10 ft.



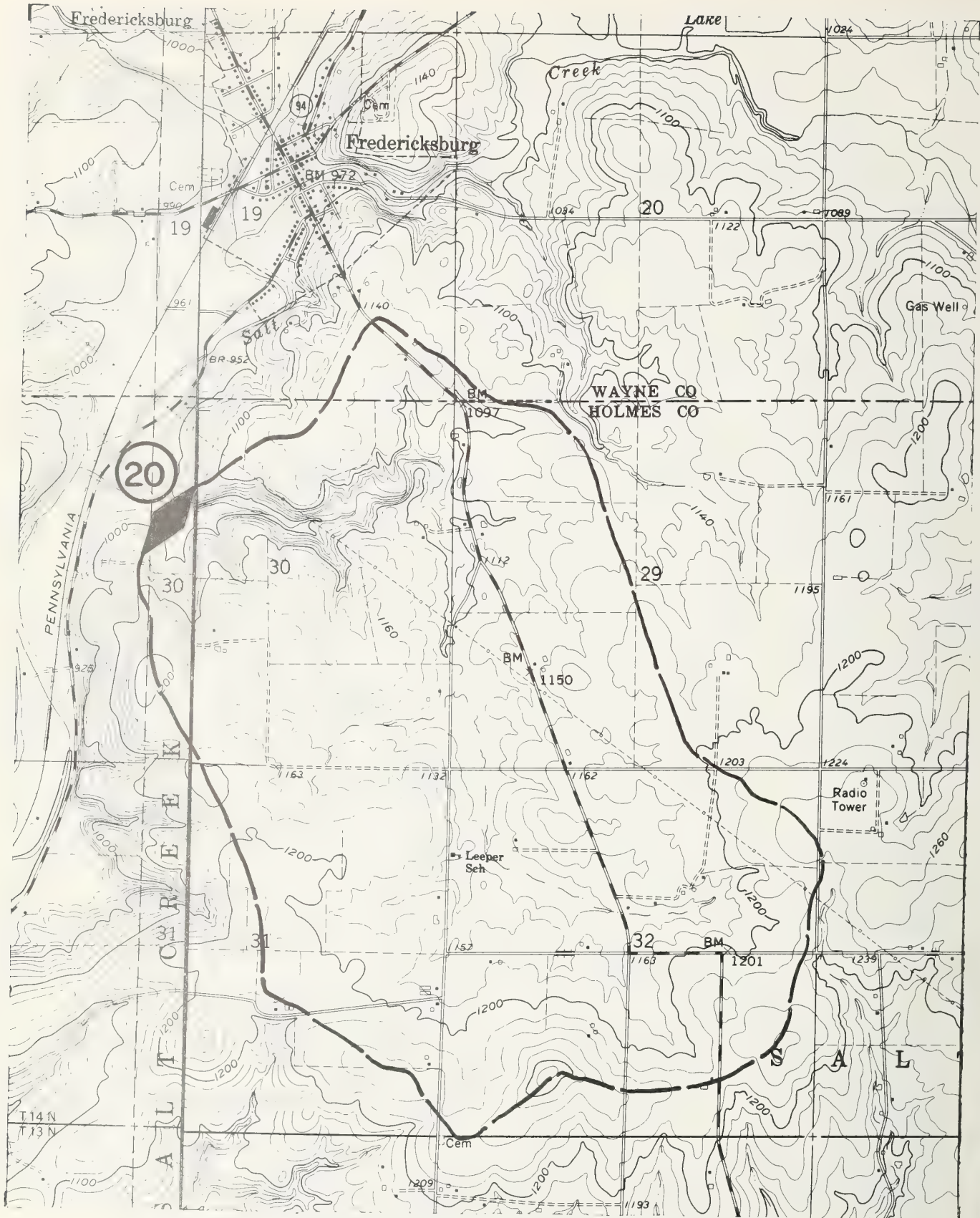
SITE NO. 4B-3.5 (18)
 SUBWATERSHED KILLBUCK (SALT CREEK)
 LOCATION CO. WAYNE TWP. SALT CREEK
 SEC. 20 SE⁴ OF NE⁴
 QUAD. FREDERICKSBURG
 SCALE 1: 24000 C. I. 20 ft.



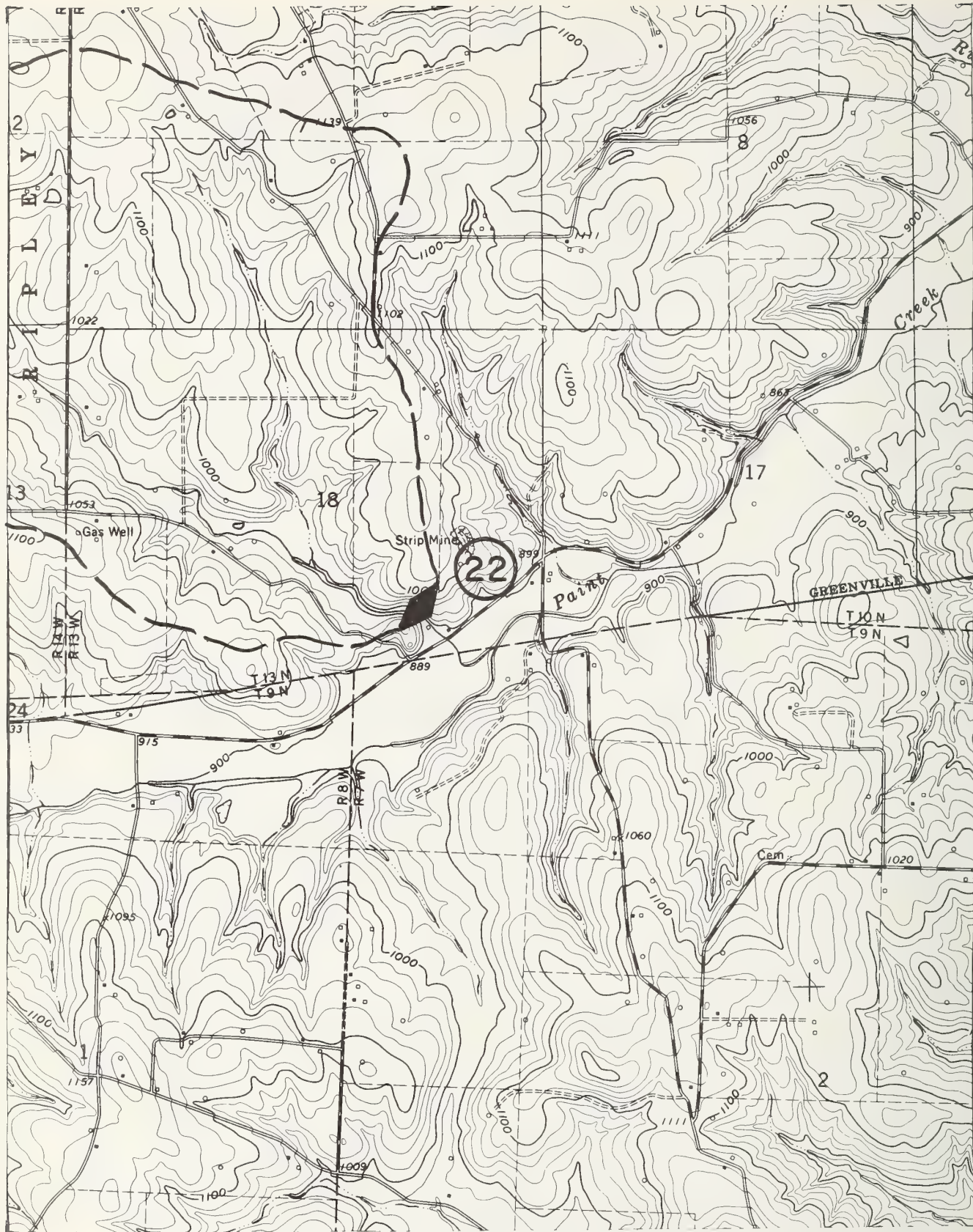
SITE NO. 4B-3.5 (18A)
 SUBWATERSHED KILLBUCK (SALT CREEK)
 LOCATION CO. HOLMES TWP. SALT CREEK
 SEC. 27 NW⁴ OF SW⁴
 QUAD. FREDERICKSBURG
 SCALE 1:24000 C. I. 20 ft.



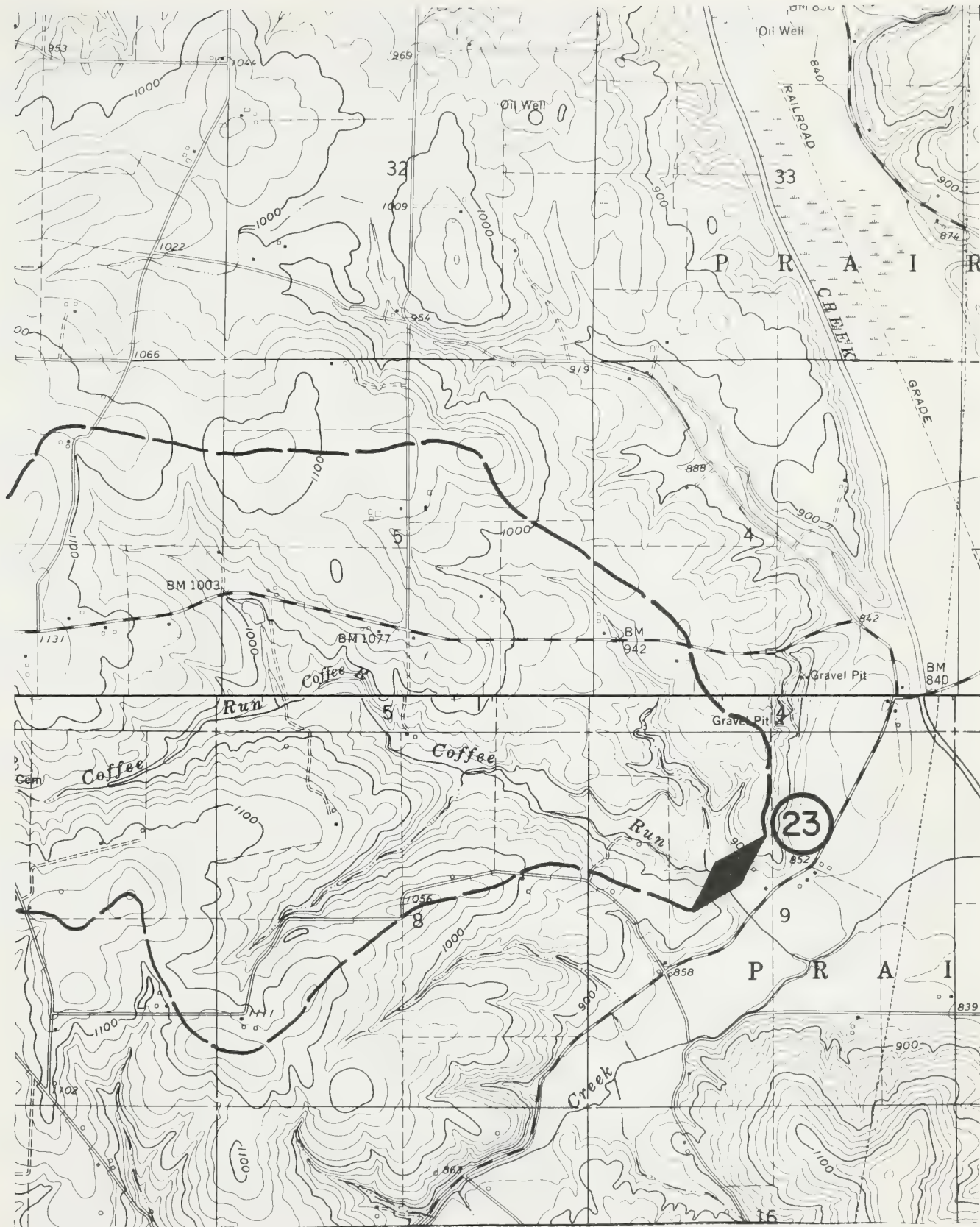
SITE NO. 4B-3.5 (19)
 SUBWATERSHED KILLBUCK (SALT CREEK)
 LOCATION CO. WAYNE TWP. SALT CREEK
 SEC. 1 NW⁴ OF NW⁴
 QUAD. HOLMESVILLE
 SCALE 1:24000 C. I. 20 ft.



SITE NO. 4B-3.5 (20)
 SUBWATERSHED KILLBUCK (SALT CREEK)
 LOCATION CO. HOLMES TWP. SALT CREEK
 SEC. 30 SW⁴ OF NW⁴
 QUAD. HOLMESVILLE
 SCALE 1:24000 C. I. 20 ft.



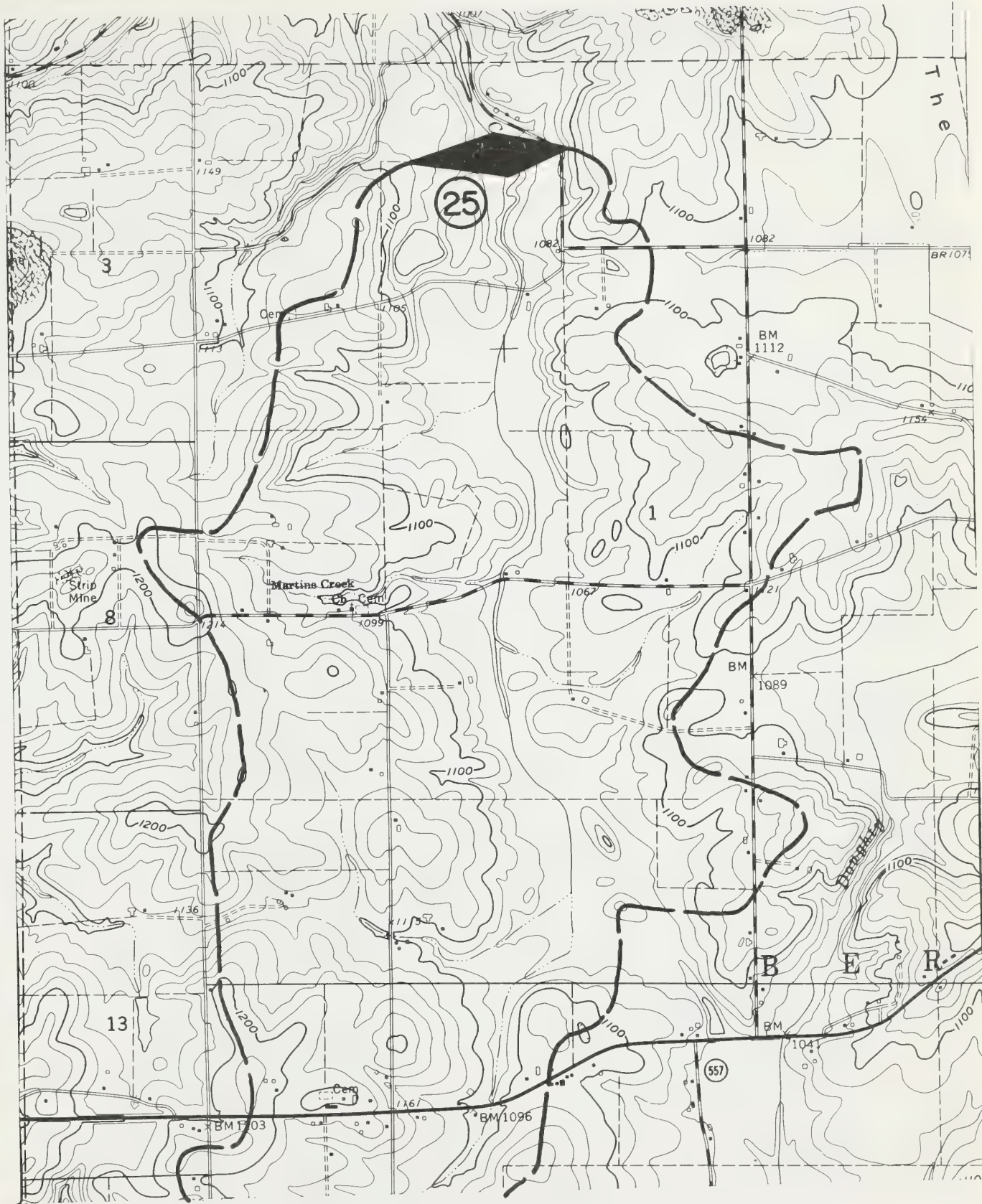
SITE NO. 4B-3.5 (22)
 SUBWATERSHED KILLBUCK
 LOCATION CO. HOLMES TWP. PRAIRIE
 SEC. 18 SW⁴ OF #3⁴
 QUAD. MILLERSBURG
 SCALE 1: 24000 C. I. 20 ft.



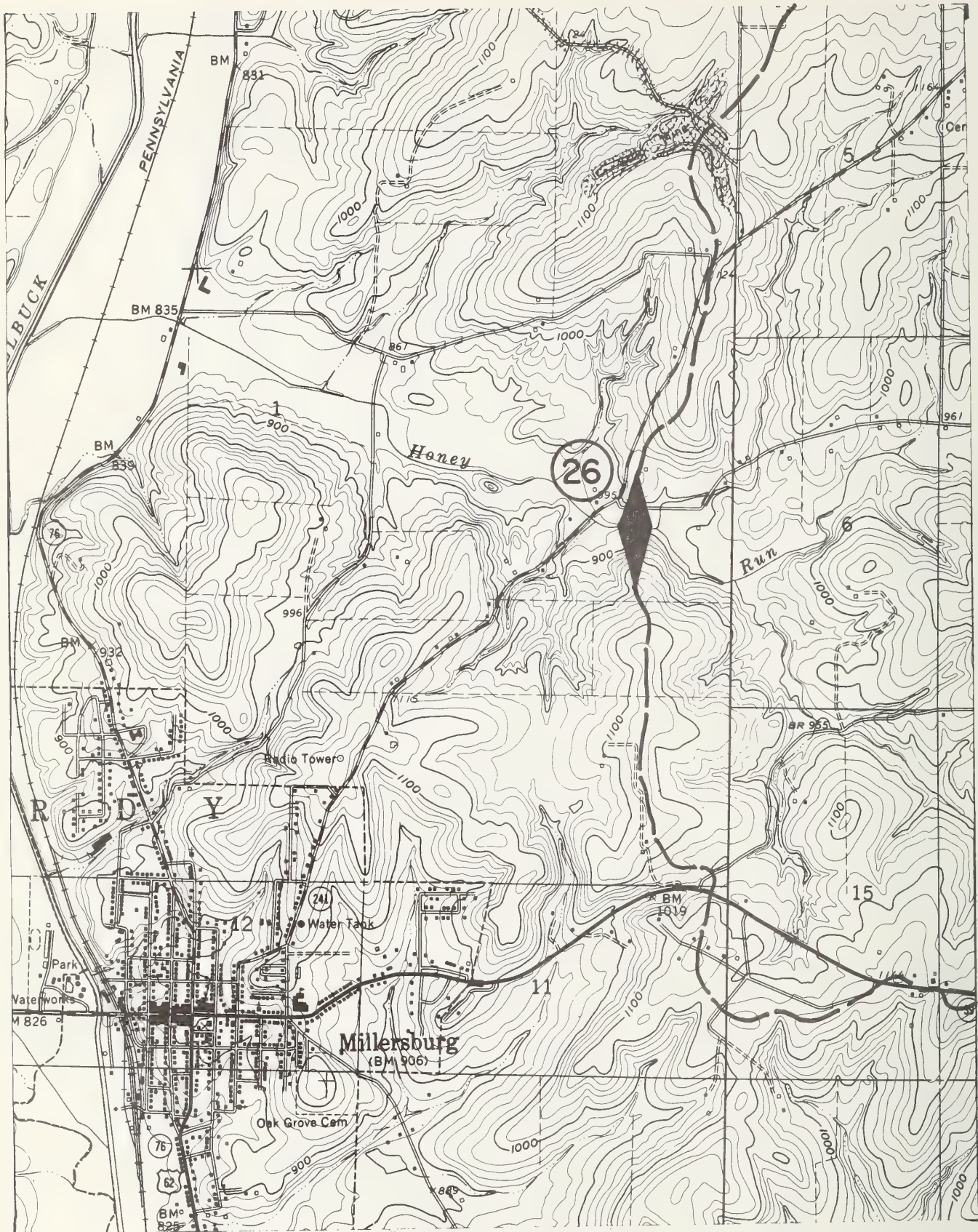
SITE NO. 4B-3 5 (23)
 SUBWATERSHED KILLBUCK
 LOCATION CO. HOLMES TWP. PRAIRIE
 SEC. 9 SE¹ OF NW¹
 QUAD. MILLERSBURG
 SCALE 1:24000 C. I. 20 ft.



SITE NO. 4B-3.5 (24)
SUBWATERSHED UPPER KILLBUCK
LOCATION CO. HOLMES TWP. SALT CREEK
SEC. 7 SE 1/4 OF NE 1/4
QUAD. BERLIN
SCALE 1:24000 C.I. 20 FT ft.



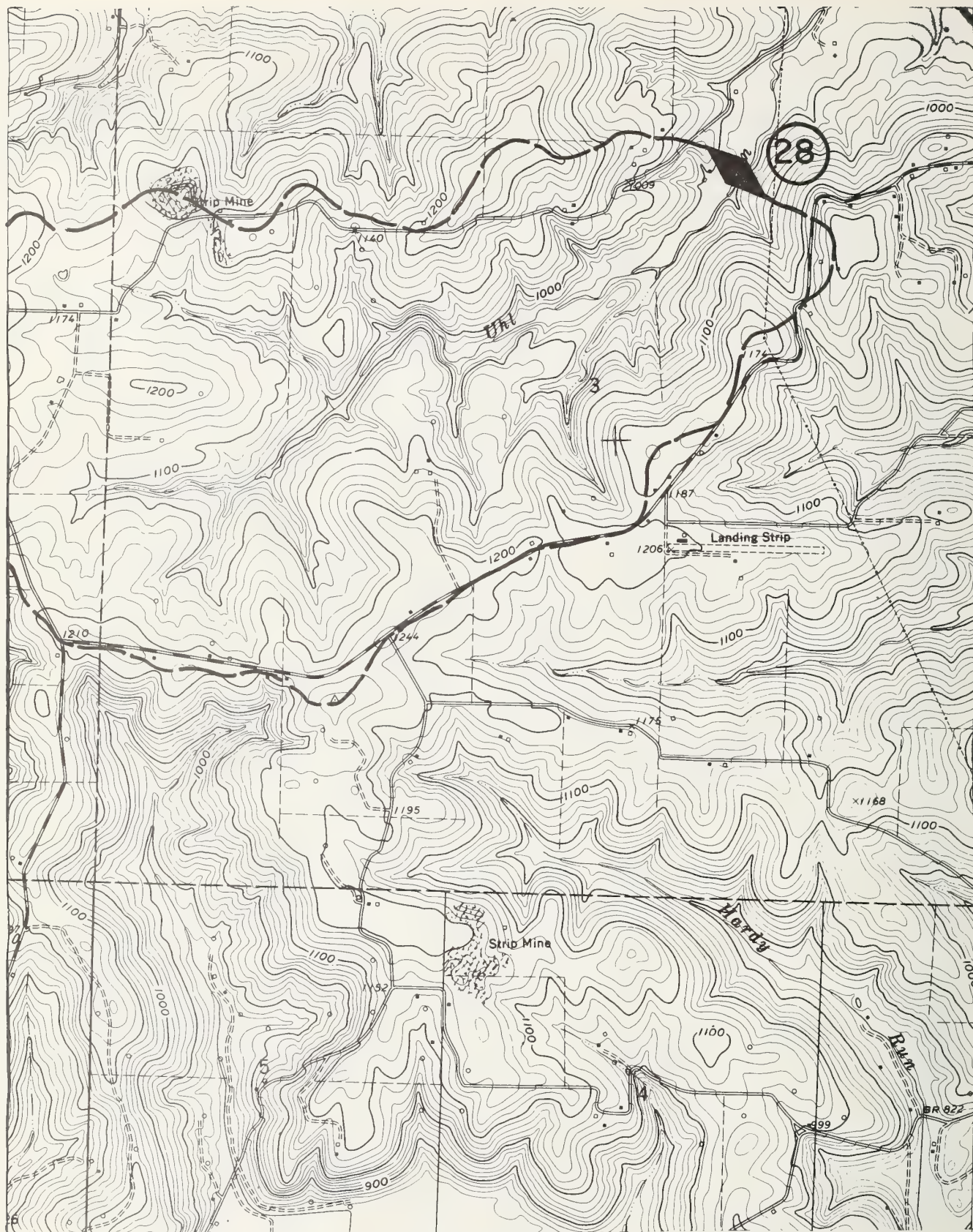
SITE NO. 4B-3.5 (25)
 SUBWATERSHED KILLBUCK
 LOCATION CO. HOLMES TWP. BERLIN
 SEC. 1 NE⁴ OF NW⁴
 QUAD. BERLIN
 SCALE 1: 24000 C.I. 20 ft.



SITE NO. 4B-3.5 (26)
 SUBWATERSHED KILLBUCK
 LOCATION CO. HOLMES TWP. HARDY
 SEC. 1 NE⁴ OF SE⁴
 QUAD. MILLERSBURG
 SCALE 1:24000 C.I. 20 ft.



SITE NO. 4B-3.5 (27)
SUBWATERSHED KILLBUCK (SAPPS RUN)
LOCATION CO. HOLMES TWP. HARDY
SEC. 2 SE⁴ OF SW⁴
QUAD. MILLERSBURG
SCALE 1:24000 C. I. 20 ft.



SITE NO. 4B-3.5 (28)
 SUBWATERSHED KILLBUCK (SAPPS RUN)
 LOCATION CO. HOLMES TWP. HARDY
 SEC. 3 NW⁴ OF NE⁴
 QUAD. MILLERSBURG
 SCALE 1:24000 C. I. 20 ft.



SITE NO. 4B 3 2 1

SUBWATERSHED KILLBUCK (DOUGHTY CR)

LOCATION CO. HOLMES TWP. MECHANIC

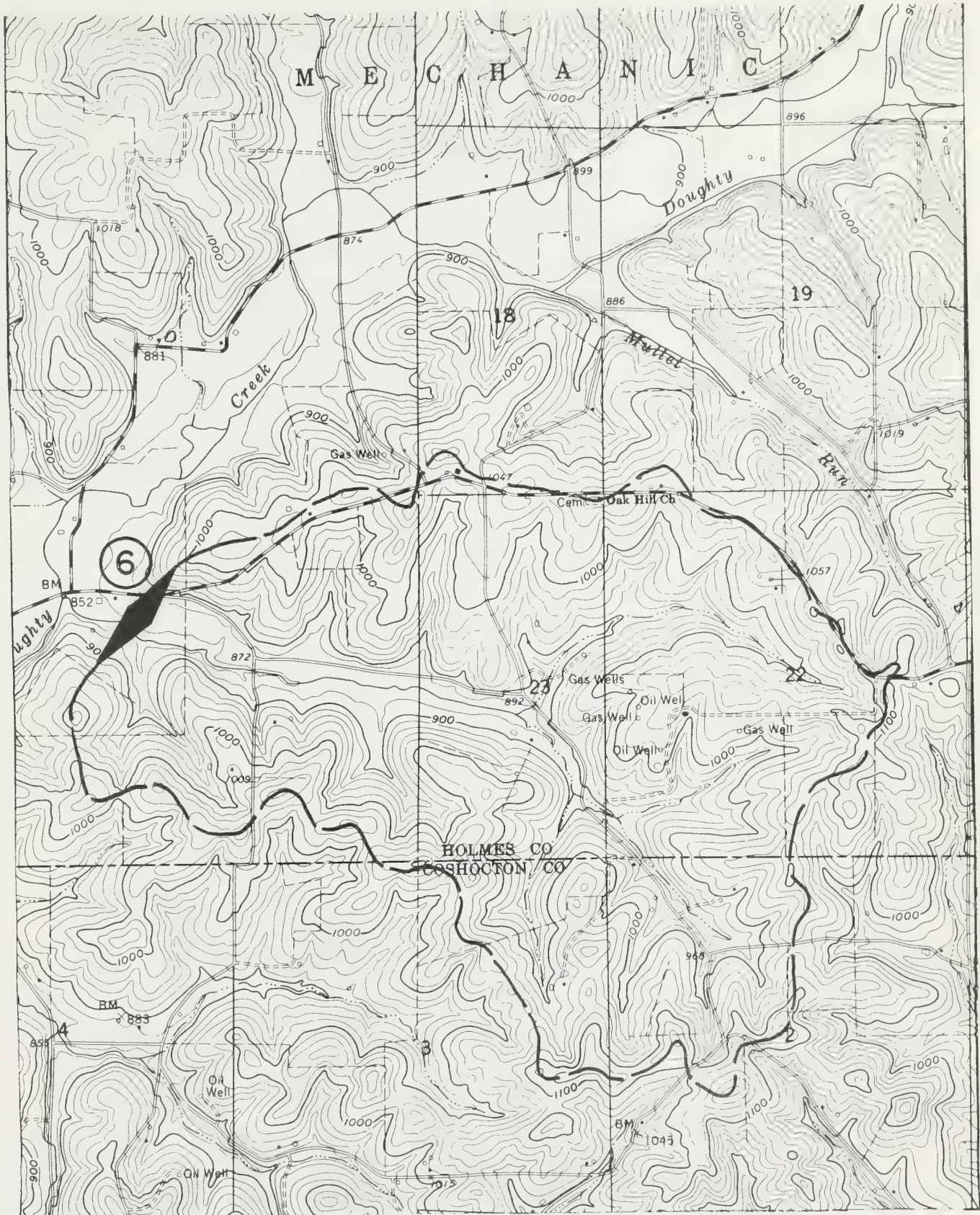
SEC. 11 NE 1/4 OF NW 1/4

QUAD. NEW BEDFORD

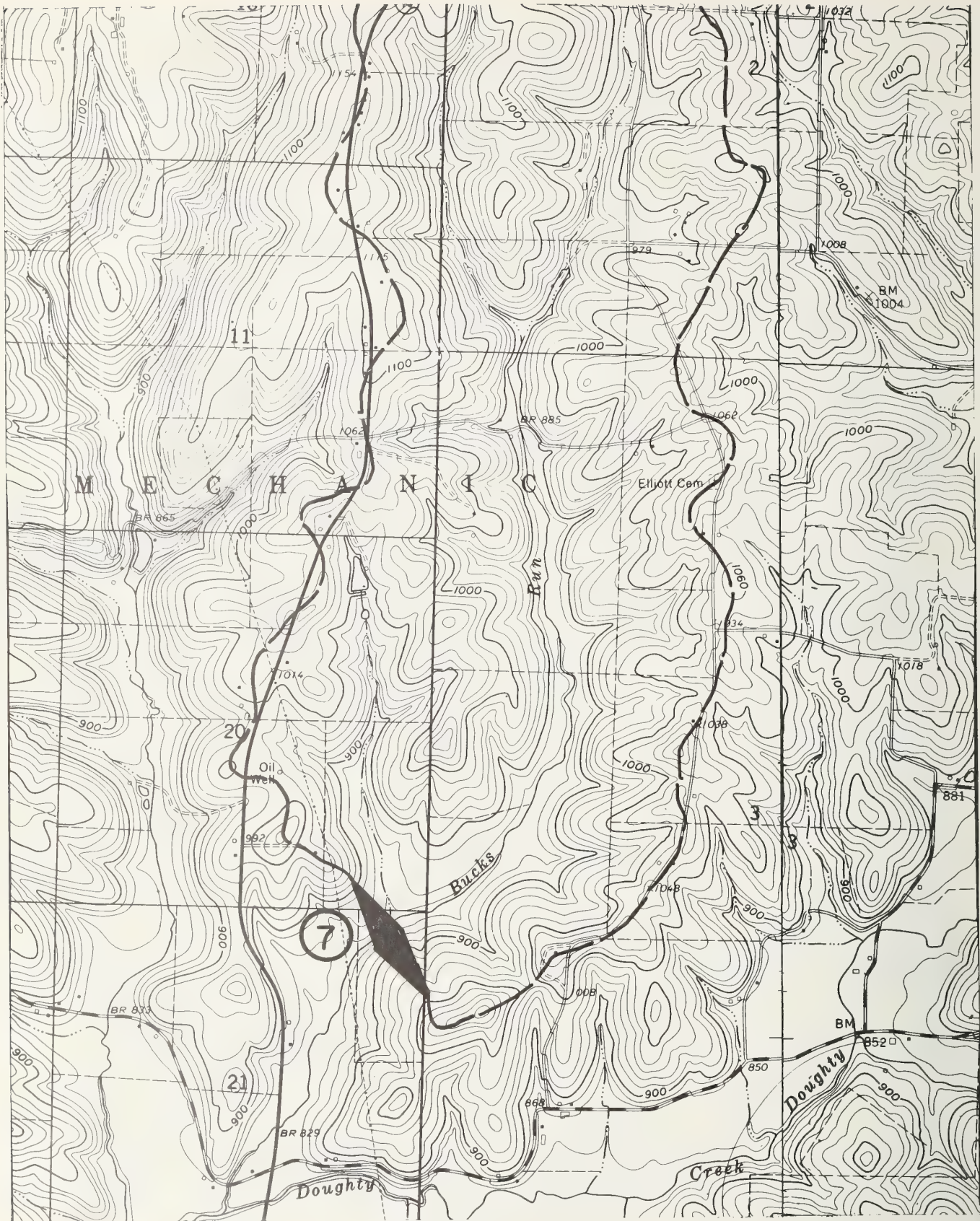
SCALE 1:24000 C.I. 20 FT. ft.



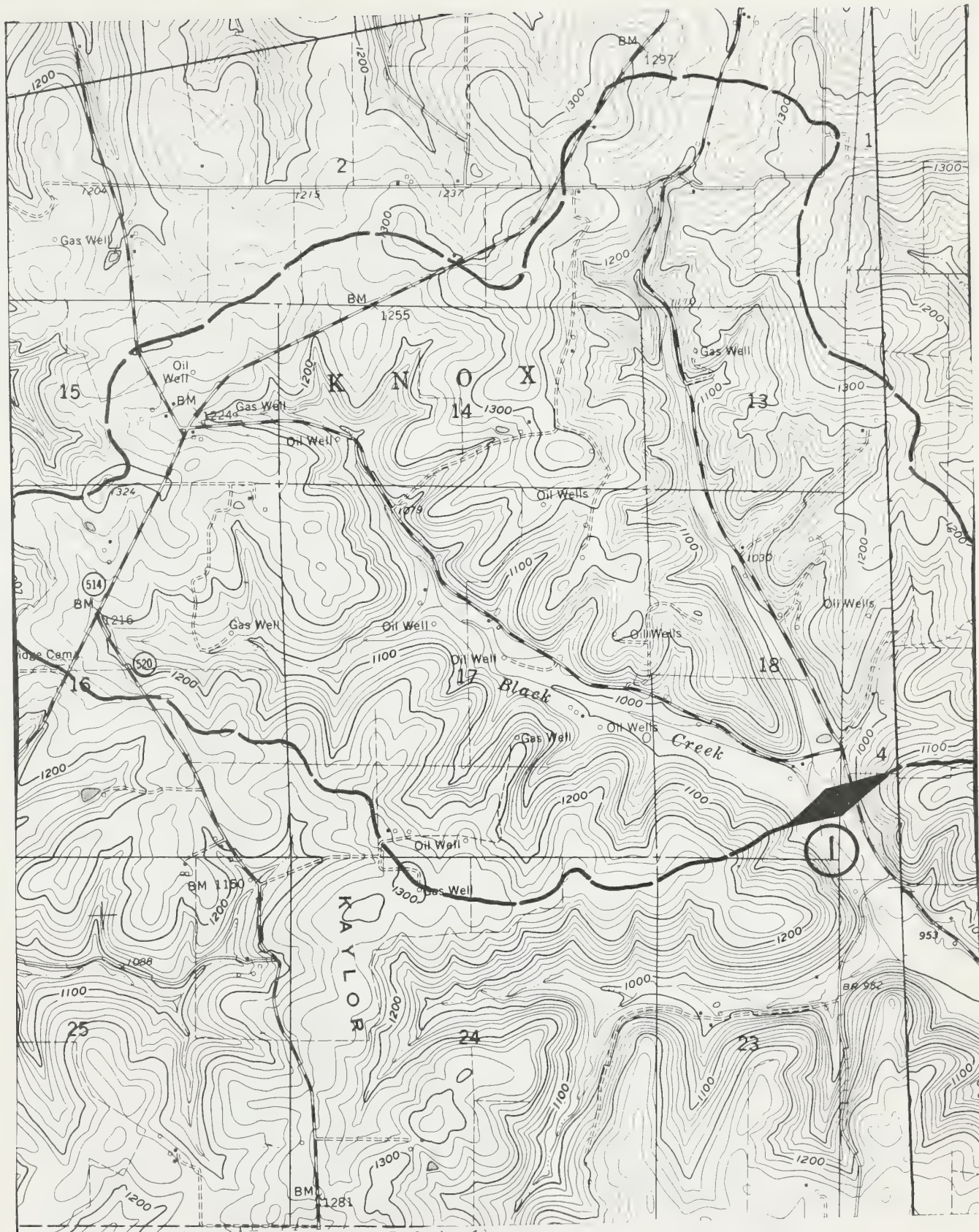
SITE NO. 4B-3.2 (3⁺)
SUBWATERSHED KILLBUCK (DOUGHTY CR.)
LOCATION CO. HOLMES TWP. MECHANIC
SEC. 3 NE⁴ OF NE⁴
QUAD. NEW BEDFORD
SCALE 1:24000 C. I. 20 ft.



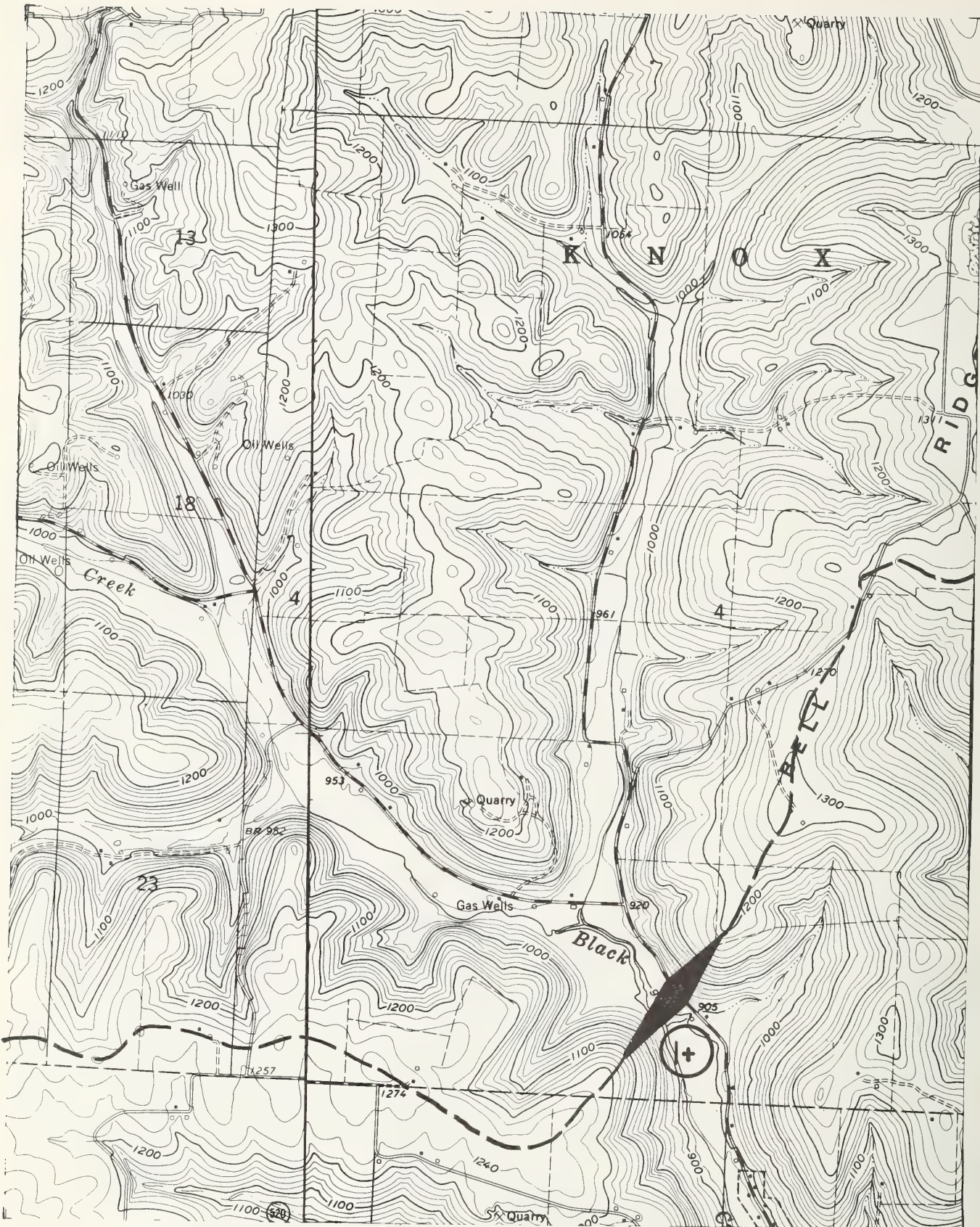
SITE NO. 4B-3.2 (6)
 SUBWATERSHED KILLBUCK (DOUGHTY CREEK)
 LOCATION CO. HOLMES TWP. MECHANIC
 SEC. 3 SW¹ OF SE⁴
 QUAD. NEW BEDFORD
 SCALE 1: 24000 C. I. 20 ft.



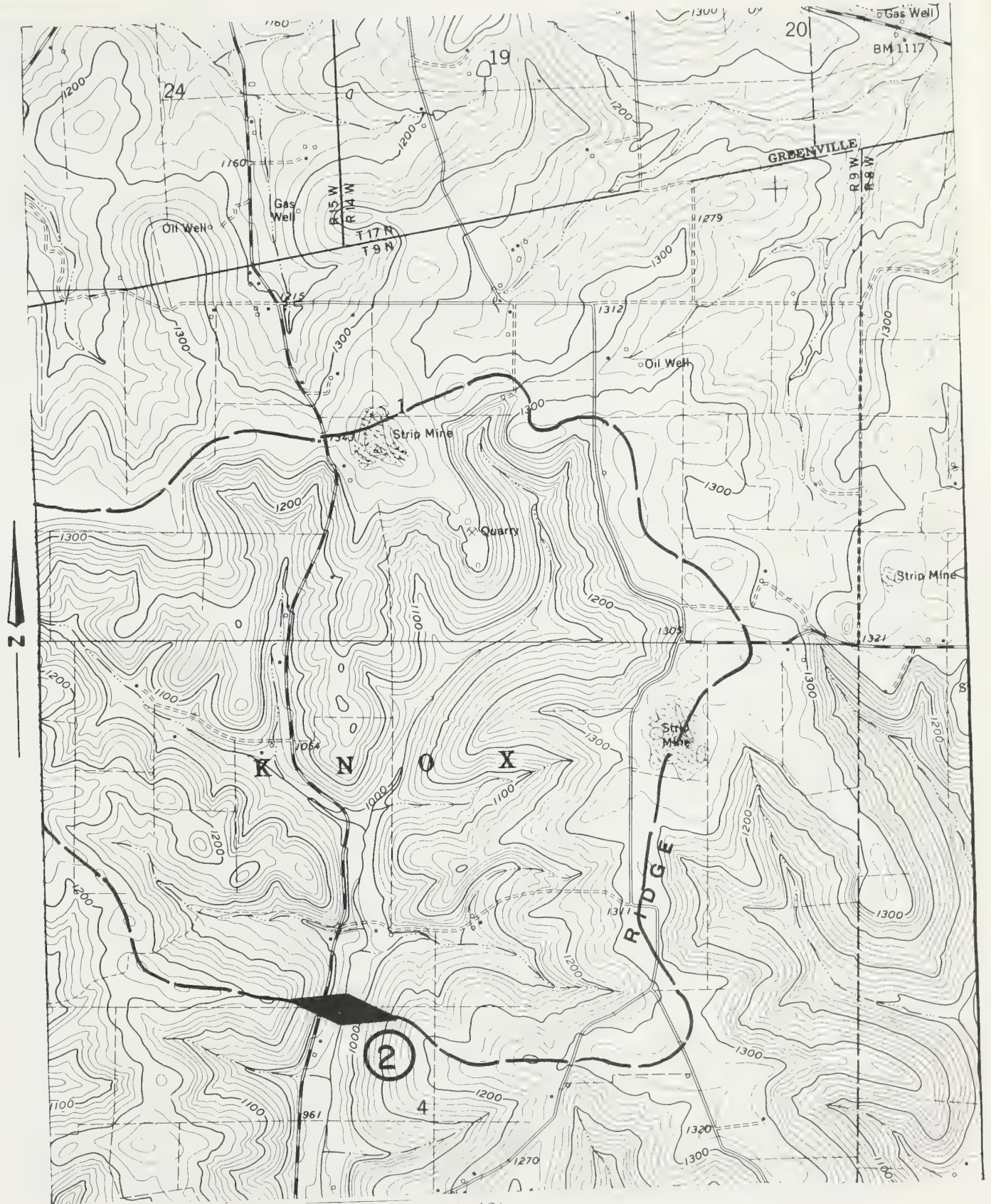
SITE NO. 4B-3.2 (7)
 SUBWATERSHED KILLBUCK (DOUGHTY CREEK)
 LOCATION CO. HOLMES TWP. MECHANIC
 SEC. 21 NE⁴ OF NE⁴
 QUAD. KILLBUCK
 SCALE 1:24000 C.I. 20 ft.



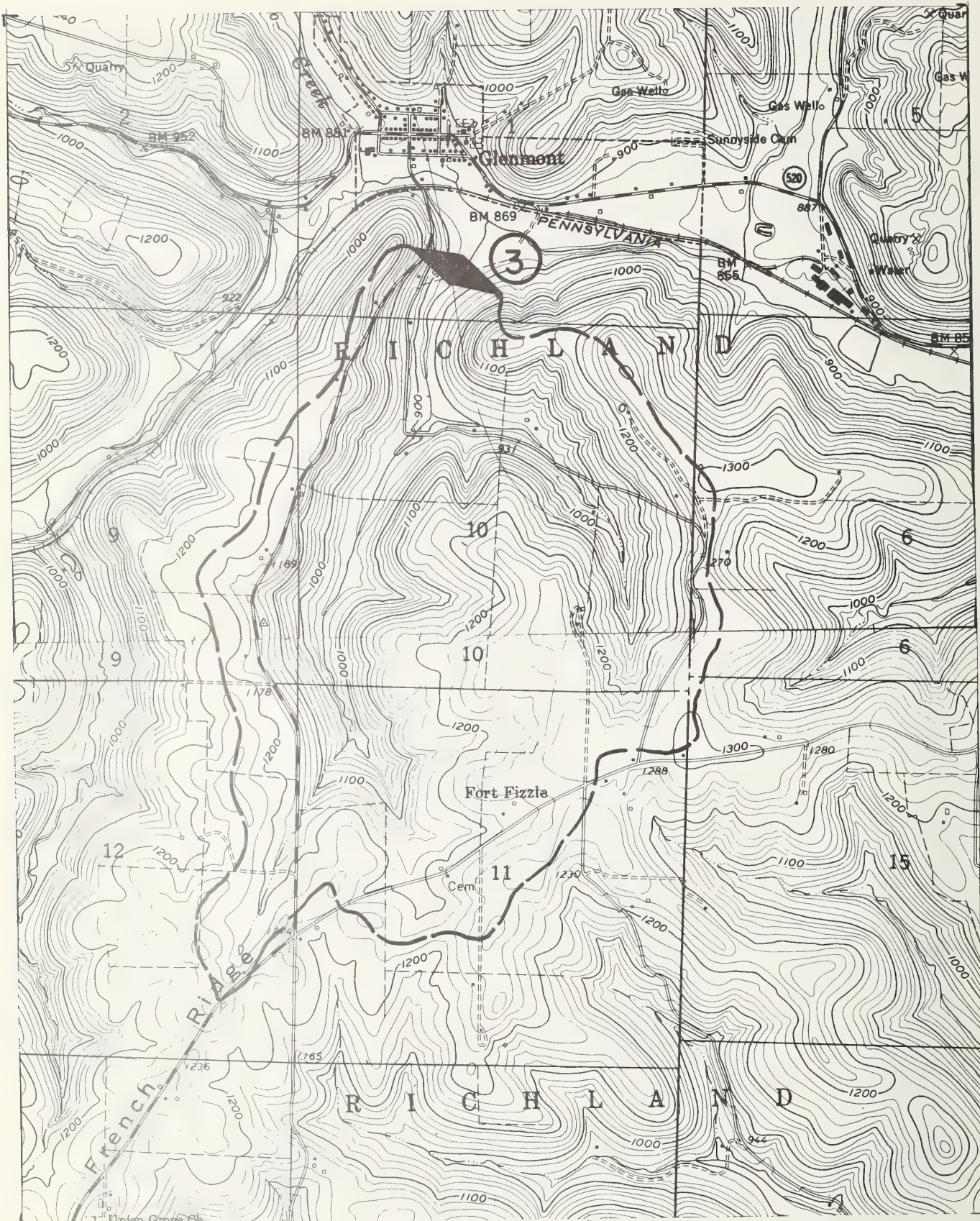
SITE NO. 4B-3.4 (1)
 SUBWATERSHED KILLBUCK (BLACK CREEK)
 LOCATION CO. HOLMES TWP. KNOX
 SEC. 18 SE¹ OF SE⁴
 QUAD. GREER
 SCALE 1:24000 C.I. 20 ft.



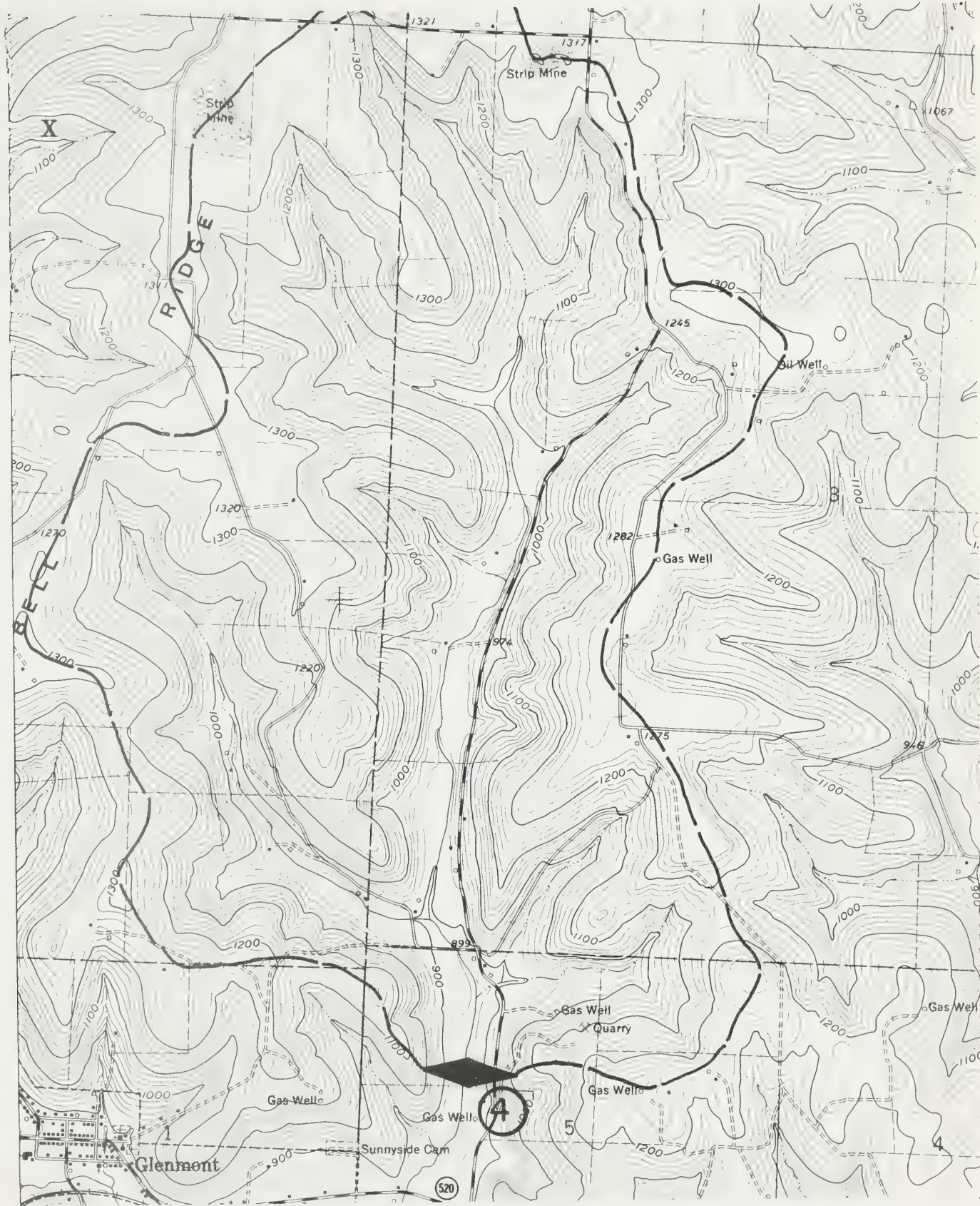
SITE NO. 4B-3.4 (1+)
SUBWATERSHED KILLBUCK (BLACK CREEK)
LOCATION CO. HOLMES TWP. KNOX
SEC. 4 SE⁴ OF SW⁴
QUAD. GLENMONT
SCALE 1:24000 C.I. 20 ft.



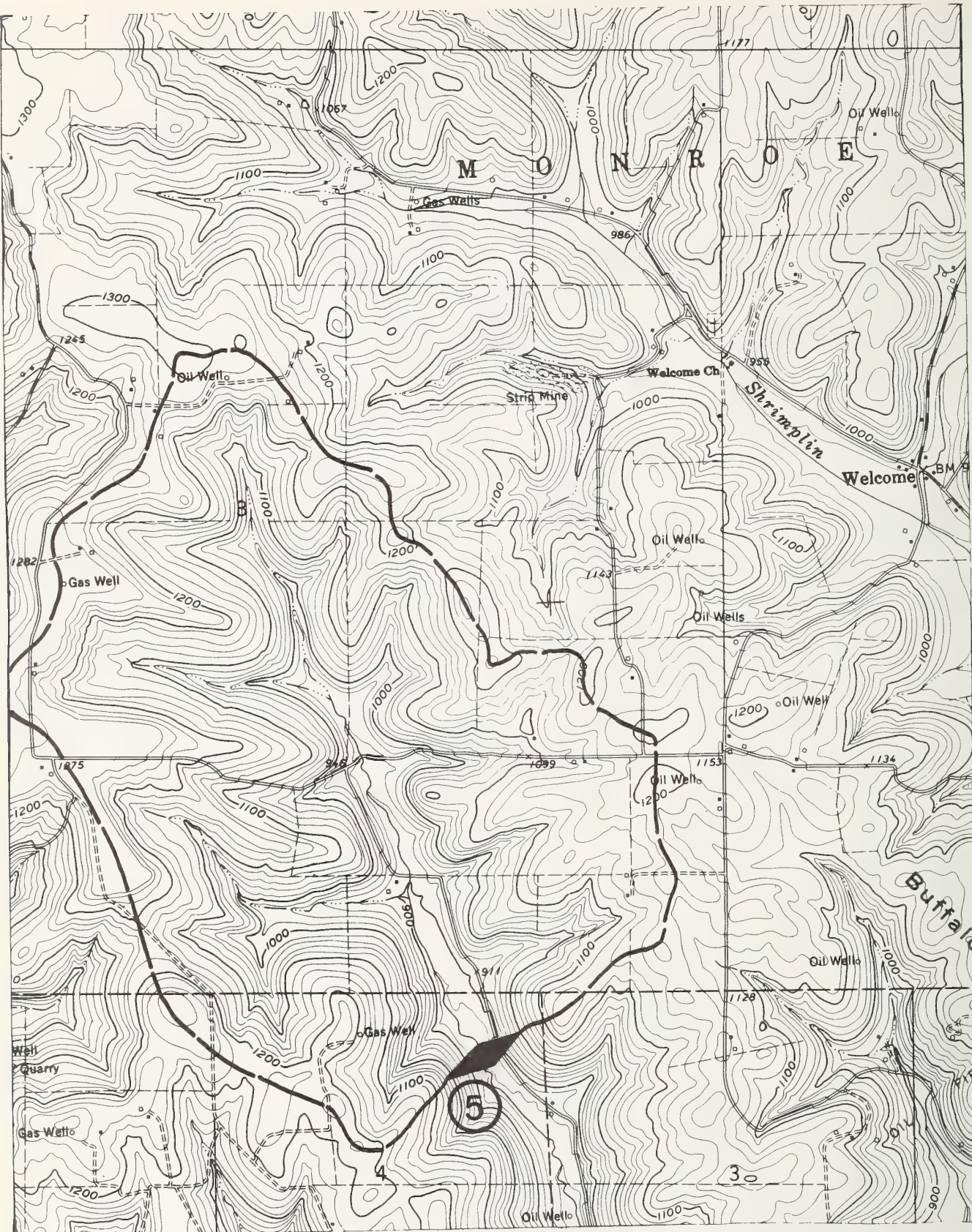
SITE NO. 4B-3.4 (2)
 SUBWATERSHED KILLBUCK (BLACK CREEK)
 LOCATION CO. HOLMES TWP. KNOX
 SEC. 4 SE⁴ OF NW⁴
 QUAD. GLENMONT
 SCALE 1:24000 C. I. 20 ft.



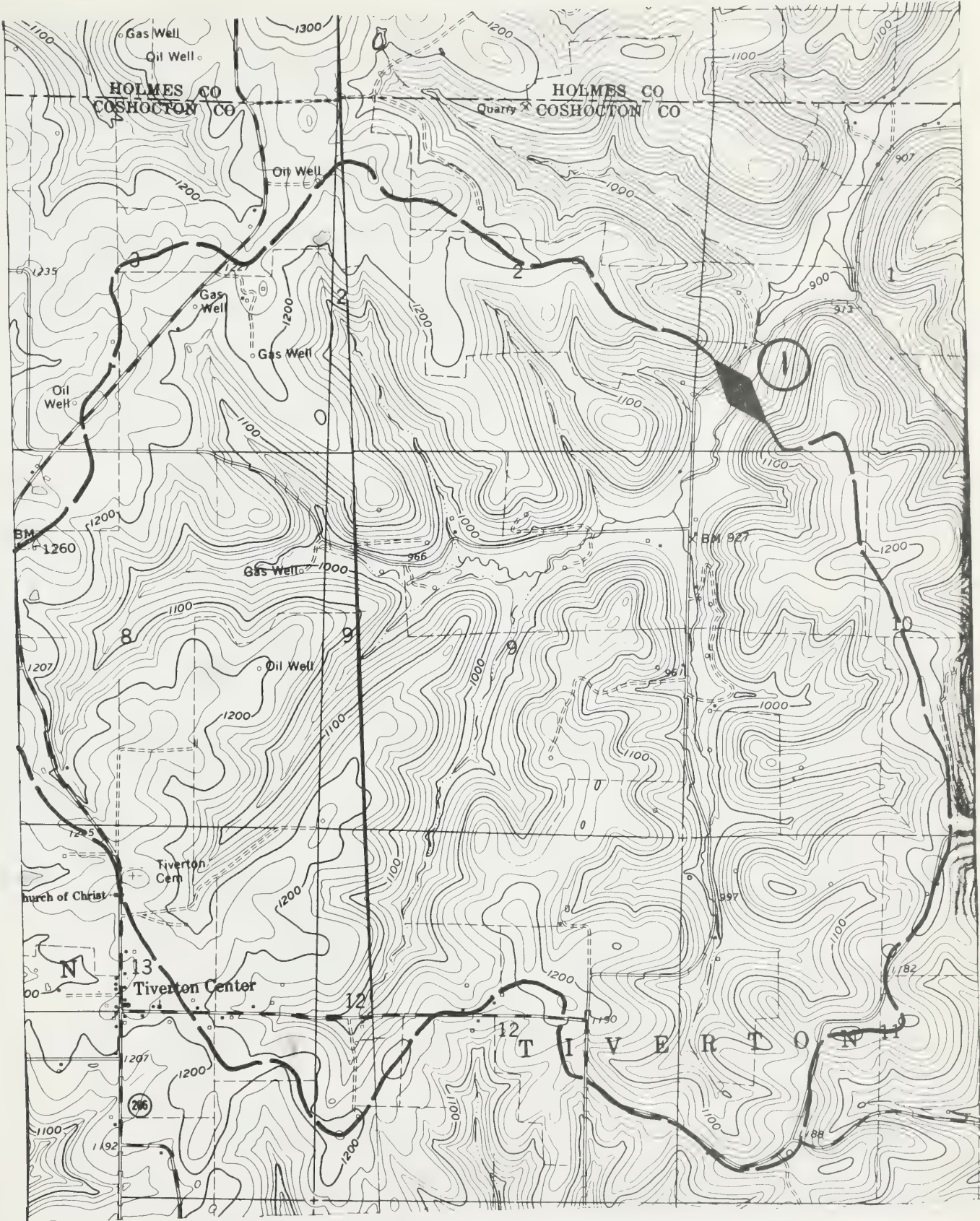
SITE NO. 4B-3.4 (3)
 SUBWATERSHED KILLBUCK (BLACK CREEK)
 LOCATION CO. HOLMES TWP. RICHLAND
 SEC. 1 SE¹ OF SW⁴
 QUAD. GLENMONT
 SCALE 1:24000 C.I. 20 ft.



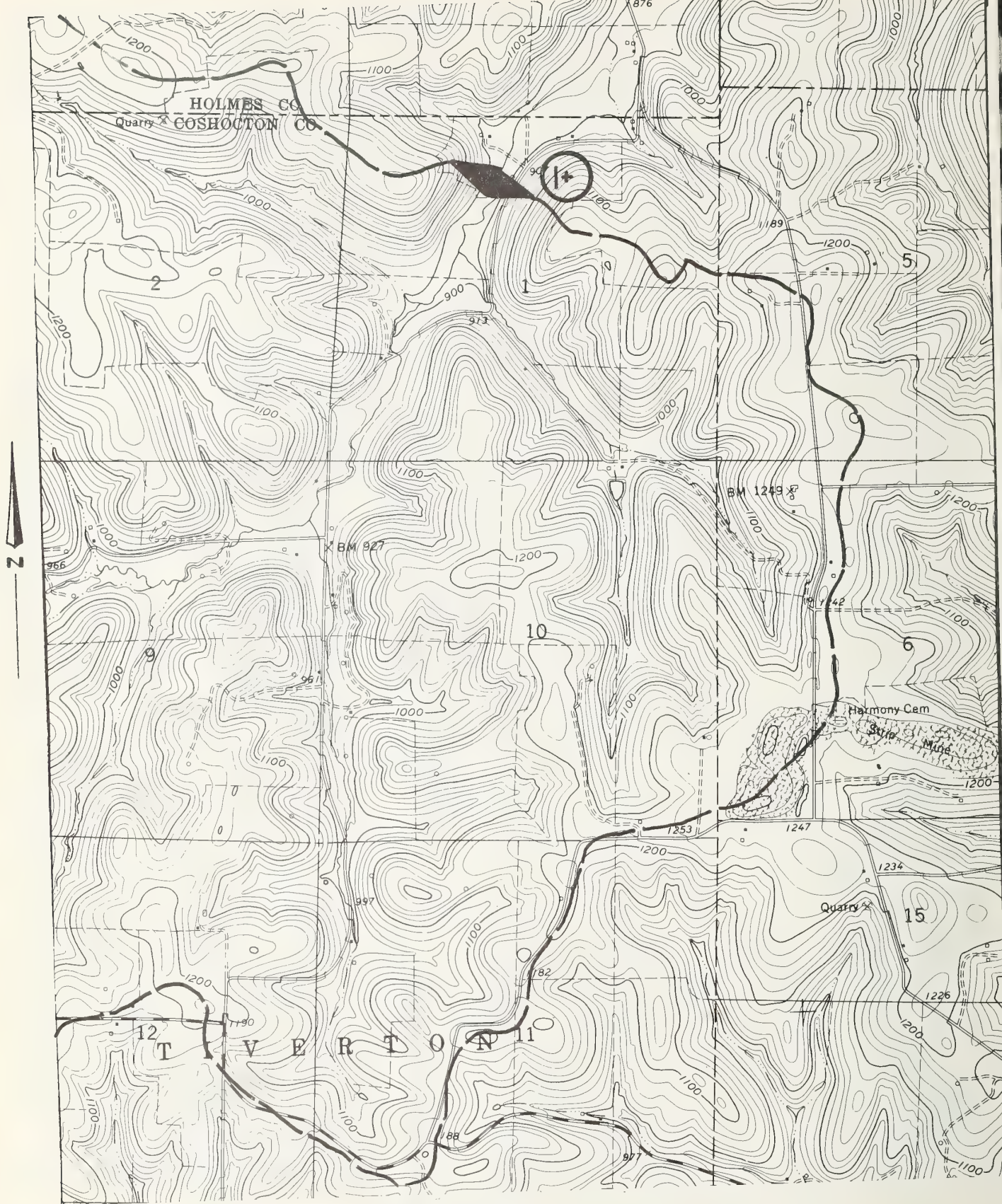
SITE NO. 4B - 3.4 (4)
 SUBWATERSHED KILLBUCK (BLACK CR)
 LOCATION CO. HOLMES TWP. RICHLAND
 SEC. 5 SW 1/4 OF NW 1/4
 QUAD. GLENMONT
 SCALE 1:24000 C.I. 20 FT. ft.



SITE NO. 4B-3.4 (5)
 SUBWATERSHED KILLBUCK (BLACK CREEK)
 LOCATION CO. HOLMES TWP. RICHLAND
 SEC. 4 NE⁴ OF NE⁴
 QUAD. GLENMONT
 SCALE 1: 24000 C.I. 20 ft.



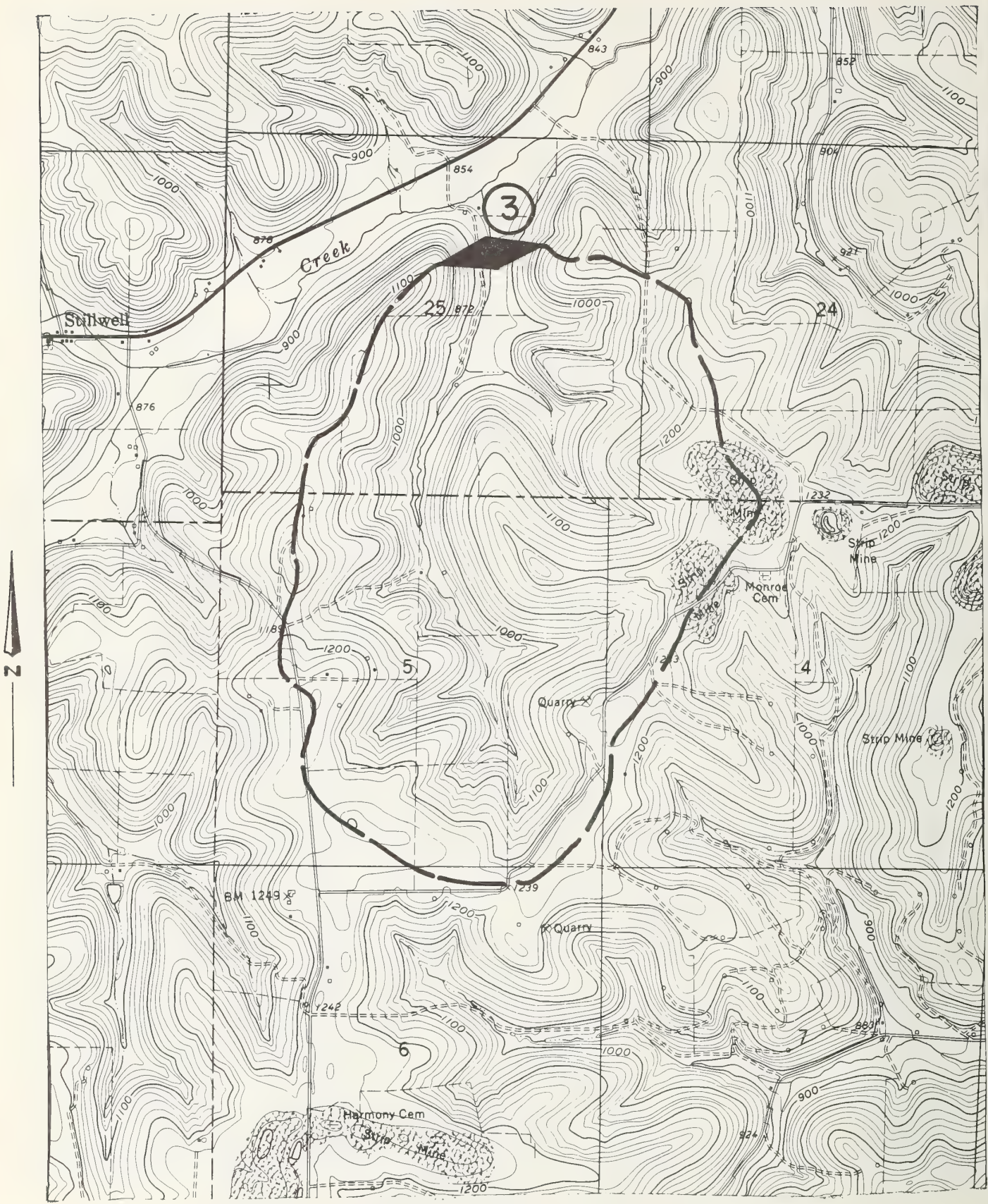
SITE NO. 4B-3.3 (1)
 SUBWATERSHED KILLBUCK (WOLF CREEK)
 LOCATION CO. COSHOCTON TWP. TIVERTON
 SEC. 1 SW⁴ OF SW⁴
 QUAD. SPRING MOUNTAIN
 SCALE 1: 24000 C.I. 20 ft.



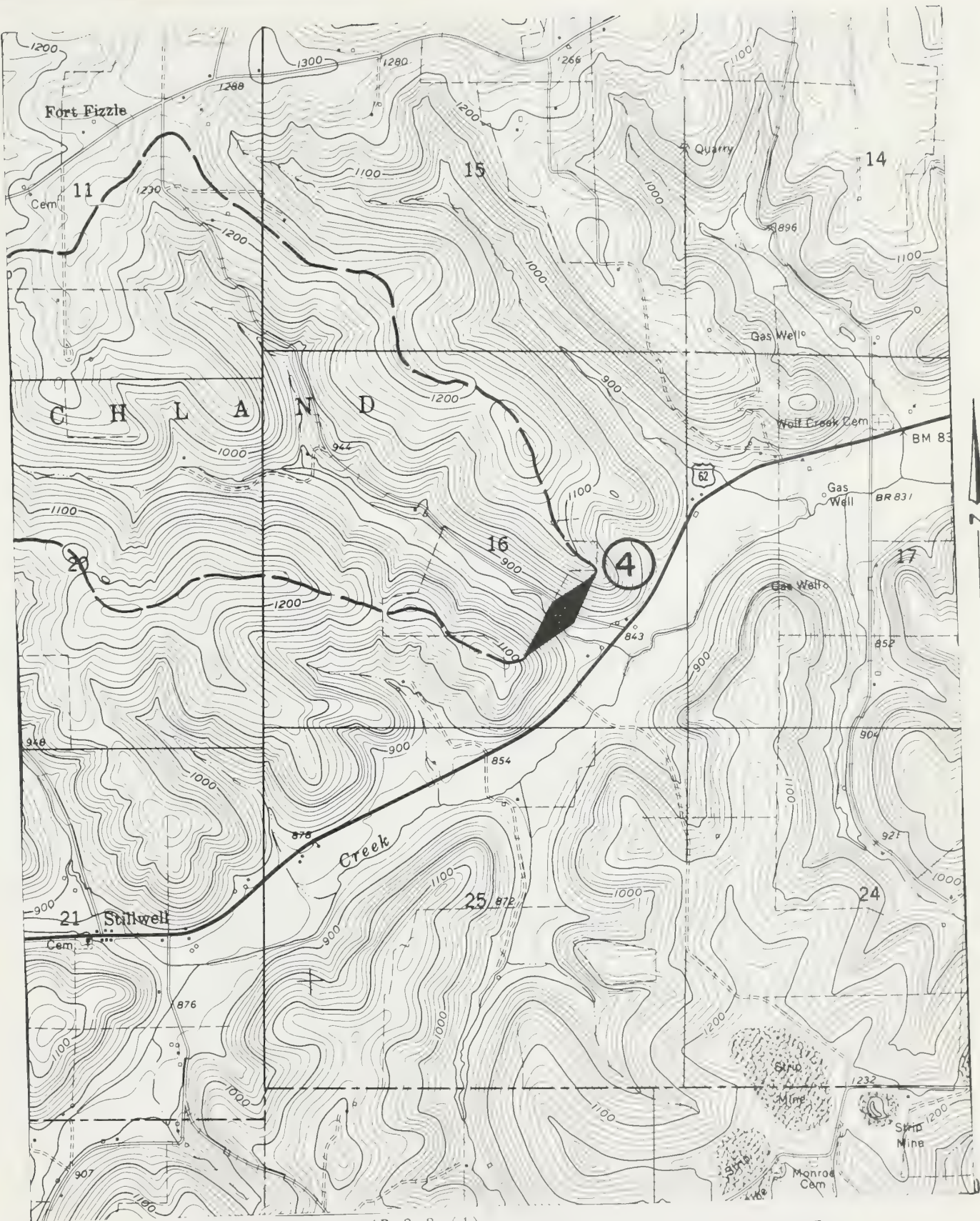
SITE NO. 4B-3.3 (1+)
SUBWATERSHED KILLBUCK (WOLF CREEK)
LOCATION CO. COSHOCTON TWP. TIVERTON
SEC. 1 NE⁴ OF NW⁴
QUAD. SPRING MOUNTAIN
SCALE 1:24000 C.I. 20 ft.



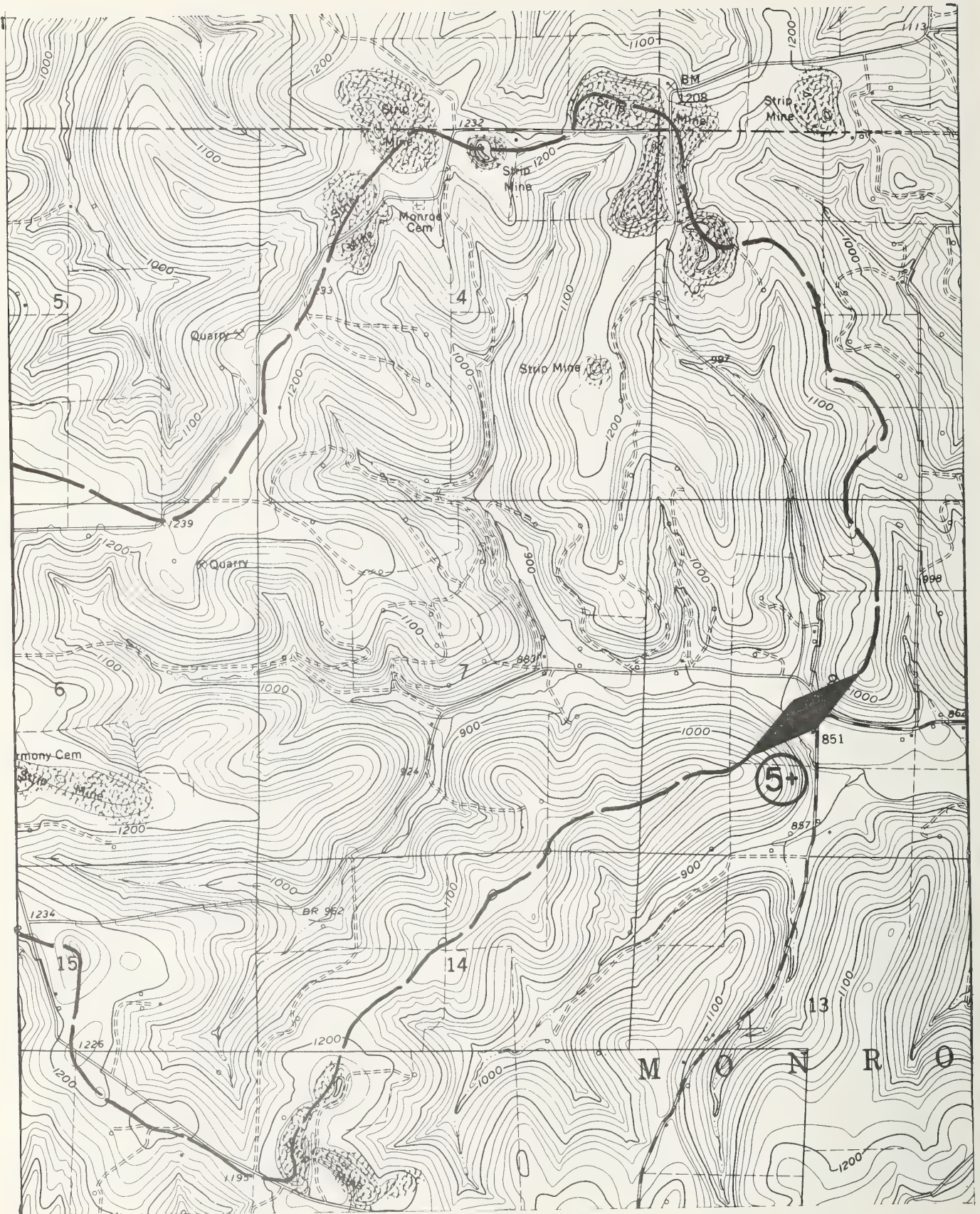
SITE NO. 4B-3.3 (2)
SUBWATERSHED KILLBUCK (WOLF CREEK)
LOCATION CO. HOLMES TWP. RICHLAND
SEC. 22 SW¹ OF NE¹
QUAD. SPRING MOUNTAIN
SCALE 1:24000 C.I. 20 ft.



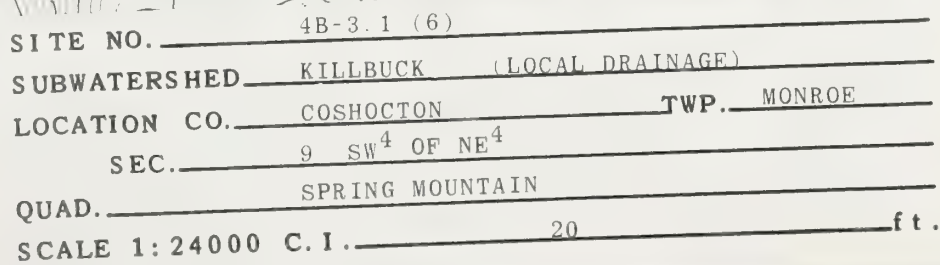
SITE NO. 4B-3.3 (3)
SUBWATERSHED KILLBUCK (WOLF CREEK)
LOCATION CO. HOLMES TWP. RICHLAND
SEC. 25 SW⁴ OF NE¹
QUAD. SPRING MOUNTAIN
SCALE 1:24000 C. I. 20 ft.

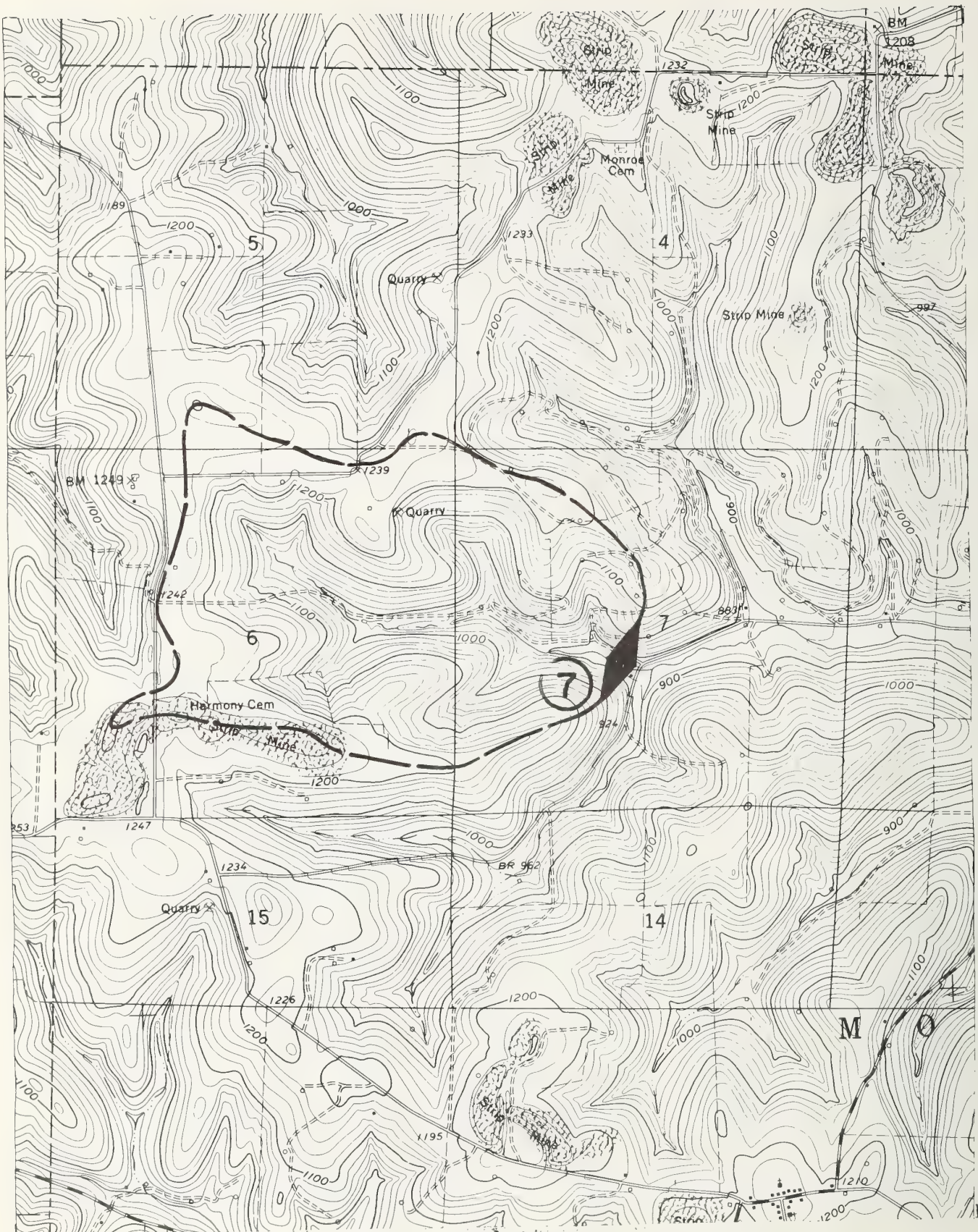


SITE NO. 4B-3.3 (4)
 SUBWATERSHED KILLBUCK (WOLF CR.)
 LOCATION CO. HOLMES TWP. RICHLAND
 SEC. 16 SW⁴ OF SE⁴
 QUAD. SPRING MOUNTAIN
 SCALE 1:24000 C.I. 20 ft.



SITE NO. 4B-3.1 (5+)
 SUBWATERSHED KILLBUCK (BIG RUN) LOCAL DRAINAGE
 LOCATION CO. COSHOCTON TWP. MONROE
 SEC. 8 NE⁴ OF SW⁴
 QUAD. SPRING MOUNTAIN
 SCALE 1:24000 C.I. 20 ft.

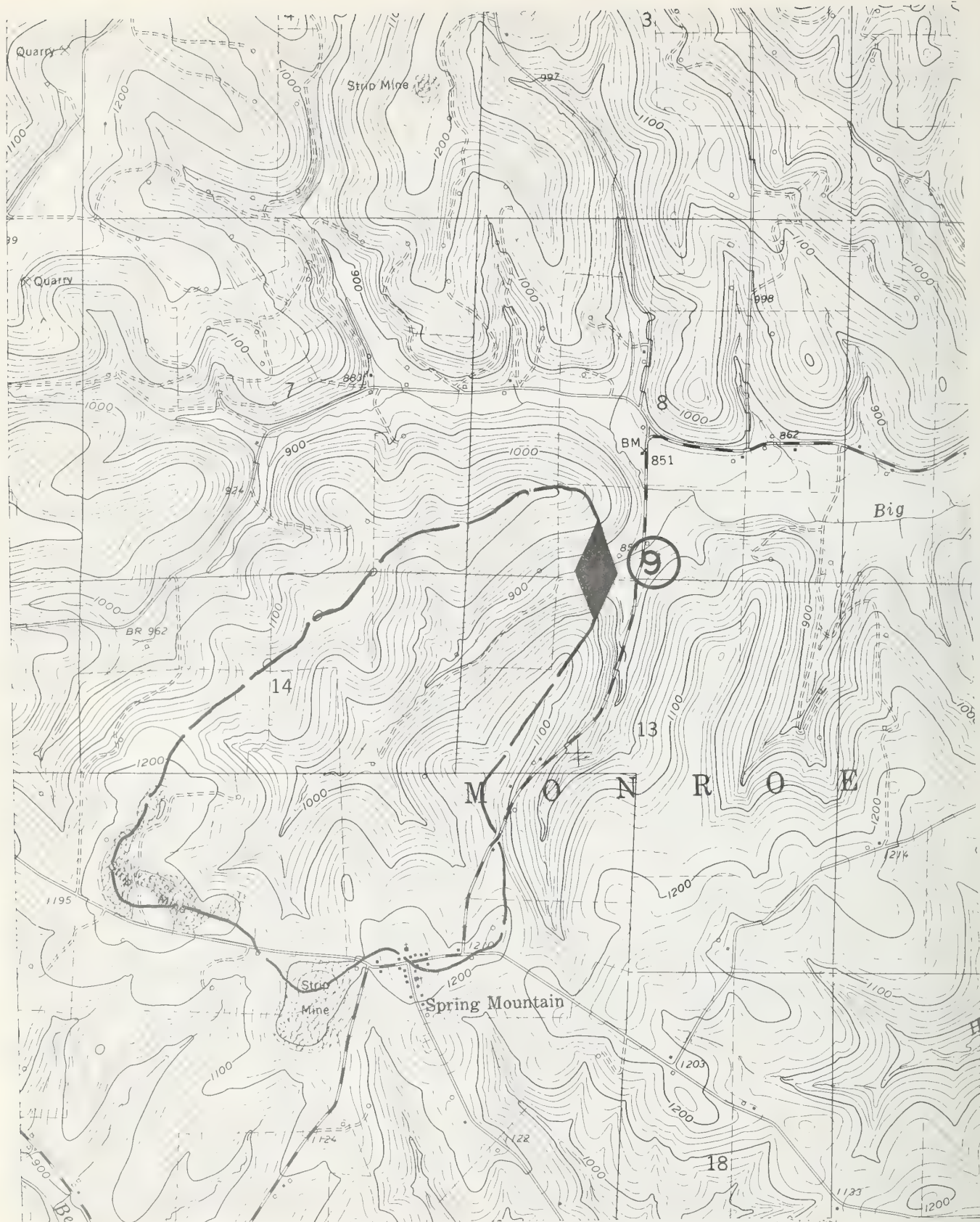




SITE NO. 4B-3.1 (7)
 SUBWATERSHED KILLBUCK (BIG RUN) LOCAL DRAINAGE
 LOCATION CO. COSHOCTON TWP. MONROE
 SEC. 7 NE⁴ OF SW⁴
 QUAD. SPRING MOUNTAIN
 SCALE 1:24000 C.I. 20 ft.

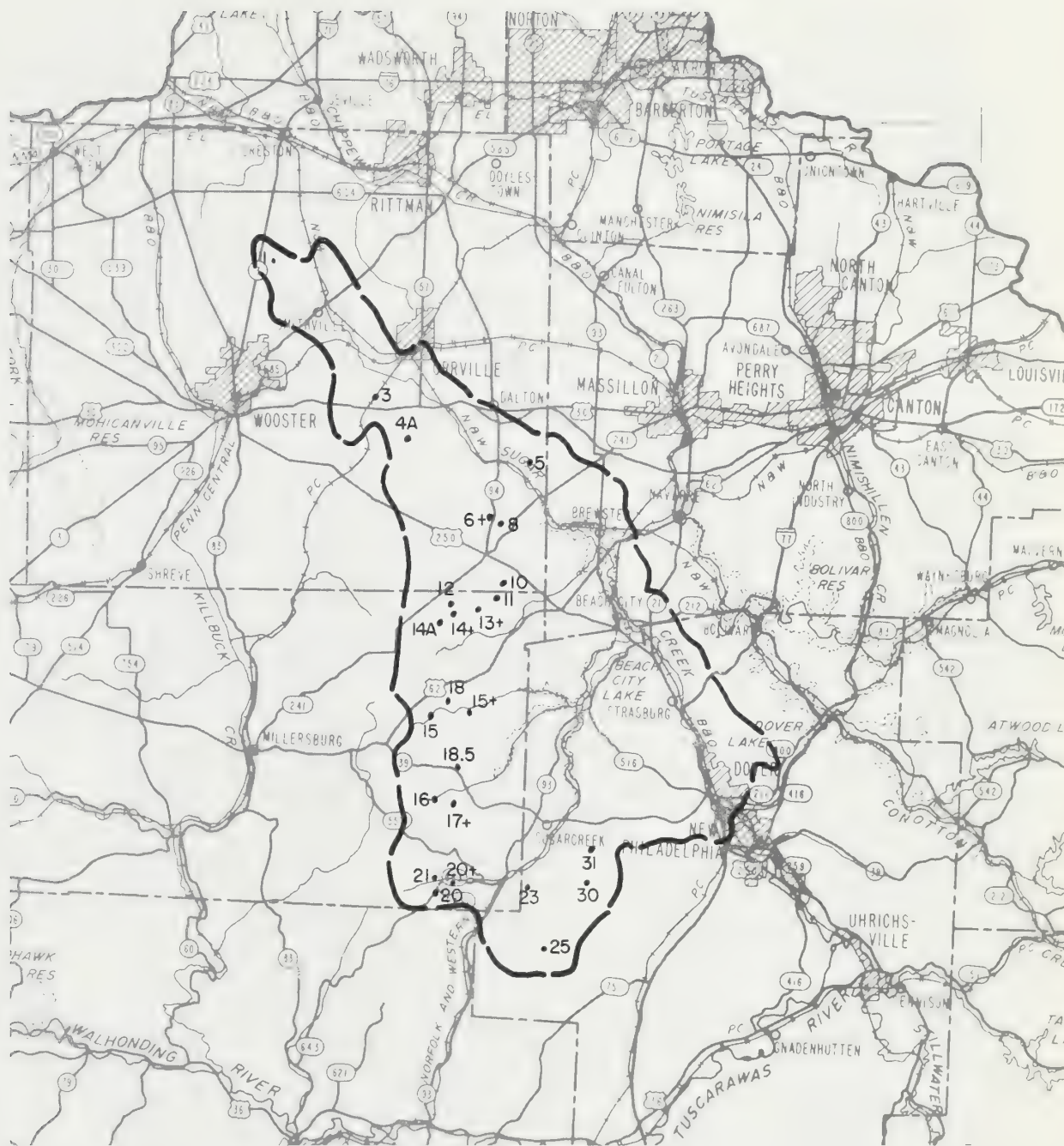


SITE NO. 4B-3 1 (8)
SUBWATERSHED KILLBUCK (BIG RUN) LOCAL DRAINAGE
LOCATION CO. COSHOCTON TWP. MONROE
SEC. 7 SE 1 4 OF NE 1 4
QUAD. SPRING MOUNTAIN
SCALE 1:24000 C. I. 20 FT ft.



SITE NO. 4B-3.1 (9)
 SUBWATERSHED KILLBUCK (BIG RUN) LOCAL DRAINAGE
 LOCATION CO. COSHOCTON TWP. MONROE
 SEC. 8 SE 1/4 OF SW 1/4
 QUAD. SPRING MOUNTAIN
 SCALE 1:24000 C.I. 20 FT. ft.

**SUGAR CREEK
SUB BASIN**



MUSKINGUM RIVER BASIN

SUGAR CREEK SUB BASIN

STATE: OHIO

TUSCARAWAS, HOLMES, STARK, WAYNE COUNTIES

SCALE 1/417,000

POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 1

OHIO MUSKINGUM RIVER BASIN										SUGAR CR. SUBBASIN										UPPER SUGAR WSHD									
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POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 2

OHIO MUSKINGUM RIVER BASIN										SUGAR CR. SUBBASIN										MIDDLE FORK SUGAR CR. WSHD.																																																	
ELEVATION (FT MSL)										STORAGE (AC-FT)										SURFACE AREA										FILL (1000)										INSTALLATION COST										UNIT COST										GROSS YIELD									
NORM EMERG DSGN TOP * MAX * BEN NORM TEMP TOTAL * NORM DSGN * VOL * CONST ENGR L/R PROJ TOTAL * AC-FT ACRE AC-FT FOR										POOL SPHY HIGH OF * HGT * USE POOL FLOOD E.S. * POOL HIGH * CREST * WTR *																																																											

ALL DATA BASED ON PRELIMINARY

RESERVOIR LOCATIONS.

MIDDLE FORK SUGAR CR. WSHD.

[illegible]

ALL DATA BASED ON PRELIMINARY

RESERVOIR LOCATIONS.

PRICE SE YEAR 1970

POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 4

OHIO MUSKINGUM RIVER BASIN										SUGAR CR. SUBBASIN										WALNUT CR. WSHD.									
ELEVATION (FT MSL)										STORAGE (AC-FT)										INSTALLATION COST									
HGT	*DAM*	* (FT)*	* (FT)*	* (FT)*	* (FT)*	* (FT)*	* (FT)*	* (FT)*	* (FT)*	* (AC-FT)	* (AC-FT)	* (AC-FT)	* (AC-FT)	* (AC-FT)	* (AC-FT)	* (AC-FT)	* (AC-FT)	* (AC-FT)	* (AC-FT)	* (AC-FT)	* (AC-FT)	* (AC-FT)	* (AC-FT)	* (AC-FT)	* (AC-FT)	* (AC-FT)	* (AC-FT)	* (AC-FT)	
EMERG DSGN TOP	*MAX*	*BEN*	*NORM*	*TEMP*	*TOTAL*	*NORM*	*DSGN*	*VOL*	*CONST*	*ENGR*	*L/R*	*PROJ*	*TOTAL*	*AC-FT*	*ACRE*	*AC-FT*	*ACRE*	*AC-FT*	*ACRE*	*AC-FT*	*ACRE*	*AC-FT*	*ACRE*	*AC-FT*	*ACRE*	*AC-FT*	*ACRE*	*AC-FT*	*ACRE*
SPRY HIGH OF	*HGT*	*USE*	*POOL*	*FLOOD*	*E.S.*	*POOL*	*HIGH*	*WTR*	*CREST*	*WTR*	*CREST*	*WTR*	*CREST*	*WTR*	*CREST*	*WTR*	*CREST*	*WTR*	*CREST*	*WTR*	*CREST*	*WTR*	*CREST*	*WTR*	*CREST*	*WTR*	*CREST*	*WTR*	*CREST*
CREST WATER DAM										CREST WATER DAM										CREST WATER DAM									
SITE INDIAN TRAIL CR. (15)										SITE INDIAN TRAIL CR. (15)										SITE INDIAN TRAIL CR. (15)									
B DA= 1.51 SQ. MI.										B DA= 1.51 SQ. MI.										B DA= 1.51 SQ. MI.									
ELEV. BOTTOM C/L PROFILE= 1055.0										ELEV. BOTTOM C/L PROFILE= 1055.0										ELEV. BOTTOM C/L PROFILE= 1055.0									
POTENTIAL USES-FC RE										POTENTIAL USES-FC RE										POTENTIAL USES-FC RE									
1063.0	1072.6	1075	1080	25	57	156	225	12	25	29	92	8	43	28	172	764													
1081.1	1086.0	1088	1093	38	400	457	162	32	44	80	185	15	82	54	337	534	6645	841	0.37										
1089.5	1093.1	1095	1099	44	724	781	162	954	46	55	117	250	18	102	67	437	458	7278	604	0.57									
1095.9	1098.9	1101	1105	50	1048	1105	162	1279	56	64	154	319	21	111	74	525	411	7716	501	0.65									
1106.1	1108.6	1110	1114	59	1697	1754	170	1935	71	76	231	441	27	124	83	676	349	8365	398	0.65									
SITE INDIAN TRAIL CR. (15+)										SITE INDIAN TRAIL CR. (15+)										SITE INDIAN TRAIL CR. (15+)									
B DA= 4.71 SQ. MI.										B DA= 4.71 SQ. MI.										B DA= 4.71 SQ. MI.									
ELEV. BOTTOM C/L PROFILE= 1013.0										ELEV. BOTTOM C/L PROFILE= 1013.0										ELEV. BOTTOM C/L PROFILE= 1013.0									
POTENTIAL USES-FC RE										POTENTIAL USES-FC RE										POTENTIAL USES-FC RE									
1025.1	1036.6	1039	1044	31	161	629	820	33	93	64	159	14	95	47	316	385													
1042.1	1047.6	1050	1055	42	1200	1361	631	2022	108	148	127	273	19	190	70	552	273	3041	460	1.15									
1050.1	1054.1	1056	1061	48	2205	2365	632	3028	150	181	174	359	24	249	77	708	234	3436	321	1.75									
1056.1	1059.6	1061	1066	53	3209	3370	634	4035	182	208	219	431	27	300	82	840	208	3665	262	2.06									
1065.8	1068.6	1070	1074	61	5219	5380	634	6044	233	253	310	570	34	355	103	1062	176	3936	203	2.06									
SITE N.BR. WALNUT CR. (16)										SITE N.BR. WALNUT CR. (16)										SITE N.BR. WALNUT CR. (16)									
B DA= 1.87 SQ. MI.										B DA= 1.87 SQ. MI.										B DA= 1.87 SQ. MI.									
ELEV. BOTTOM C/L PROFILE= 1016.0										ELEV. BOTTOM C/L PROFILE= 1016.0										ELEV. BOTTOM C/L PROFILE= 1016.0									
POTENTIAL USES-FC RE										POTENTIAL USES-FC RE										POTENTIAL USES-FC RE									
1024.3	1033.0	1035	1039	23	73	211	296	16	44	56	140	13	78	42	272	919													
1039.1	1042.9	1045	1049	33	500	573	211	796	53	69	119	252	18	136	67	474	595	5610	947	0.47									
1045.6	1048.6	1050	1055	39	899	972	211	1195	71	83	162	326	22	160	75	582	487	6209	648	0.71									
1050.6	1053.3	1055	1059	43	1298	1371	211	1594	85	96	205	396	25	180	79	680	427	6546	524	0.81									
1059.0	1061.5	1062	1066	50	2096	2168	278	2460	108	119	292	531	32	206	96	864	351	6849	412	0.81									
SITE WALNUT CR. (17+)										SITE WALNUT CR. (17+)										SITE WALNUT CR. (17+)									
B DA= 1.64 SQ. MI.										B DA= 1.64 SQ. MI.										B DA= 1.64 SQ. MI.									
ELEV. BOTTOM C/L PROFILE= 1012.0										ELEV. BOTTOM C/L PROFILE= 1012.0										ELEV. BOTTOM C/L PROFILE= 1012.0									
POTENTIAL USES-FC RE										POTENTIAL USES-FC RE										POTENTIAL USES-FC RE									
1020.9	1029.0	1031	1035	23	66	173	251	14	38	23	81	7	29	24	141	562													
1034.6	1038.4	1041	1045	33	400	466	173	651	45	59	60	150	13	71	45	279	429	3822	697	0.39									
1041.1	1043.9	1046	1050	38	750	815	172	1000	61	75	86	198	16	108	58	380	380	4704	507	0.60									
1046.4	1048.9	1050	1054	42	1100	1165	194	1372	77	89	113	246	18	145	66	474	346	4947	431	0.70									
1054.1	1056.6	1057	1061	49	1799	1865	255	2132	101	112	166	342	23	182	76	622	292	5181	346	0.70									
POTENTIAL USES-FC RE										POTENTIAL USES-FC RE										POTENTIAL USES-FC RE									
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POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 5

OHIO MUSKINGUM RIVER BASIN										SUGAR CR SUBBASIN										S.FORK SUGAR CR WSHD.									
ELEVATION (FT MSL)										STORAGE (AC-FT)										INSTALLATION COST									
*HGT *										*SURFACE *										*FILL*									
*DAM *										*AREA *										*(\$1000)									
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POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 6

OHIO MUSKINGUM RIVER BASIN										SUGAR CR. SUBBASIN										S. FORK SUGAR CR. WSHD.									
ELEVATION (FT MSL)										STORAGE (AC-FT)										SURFACE (AC)									
*HGT * *DAM * * (FT)*										* (AC) * *YDS* * (\$1000) * (\$) PER * (MGD)										* FILL * *INSTALLATION COST * * UNIT COST * *GROSS *YIELD * (MGD)									
NORM ENERG DSGN TOP *MAX * BEN NORM TEMP TOTAL * NORM DSGN* VOL *CONST ENGR L/R PROJ TOTAL*AC-FT ACRE AC-FT* FOR										*HGT * *USE POOL FLOOD E.S. * POOL HIGH* * CREST * WTR * * *ALLOC ALLOC STORE* P.C.										*STORE BEN BEN * 2									
POOL SPWY HIGH OF										*HGT * *USE POOL FLOOD E.S. * POOL HIGH* * CREST * WTR * * *ALLOC ALLOC STORE* P.C.										*STORE BEN BEN * 2									
CREST WATER DAM * *										*HGT * *USE POOL FLOOD E.S. * POOL HIGH* * CREST * WTR * * *ALLOC ALLOC STORE* P.C.										*STORE BEN BEN * 2									

SITE S. FORK SUGAR CR (21+)

B DA= 3.98 SQ.MI. ELEV. BOTTOM C/L PROFILE= 1018.0										POTENTIAL USES-FC RE									
1026.5	1036.1	1039	1044	26	132	543	698	35	96	43	116	10	98	35	260	372			
1041.1	1046.3	1048	1054	36	1040	1172	1741	105	120	97	219	17	174	62	472	271	2681	454	
1048.6	1053.1	1055	1060	42	1889	2021	2591	121	134	151	313	21	232	74	640	247	3850	339	
1055.3	1059.4	1061	1066	48	2738	2870	3442	135	151	208	411	26	267	80	784	228	4615	286	
1066.3	1069.4	1071	1075	57	4436	4568	5140	180	204	319	583	35	319	105	1043	203	4999	235	
														</					

SITE PLEASANT VALLEY (23)

B DA= 2.05 SQ.MI. ELEV. BOTTOM C/L PROFILE= 1035.0										POTENTIAL USES-FC RE									
1046.1	1054.6	1058	1063	28	79	225	317	18	45	36	105	9	45	31	191	602			
1061.4	1065.3	1067	1072	37	550	629	866	55	72	74	177	15	99	52	344	397	3998	625	0.53
1068.1	1071.1	1073	1077	42	987	1066	1303	75	89	104	230	17	122	64	432	332	4398	438	0.80
1073.5	1076.0	1078	1082	47	1425	1503	223	1740	90	102	134	288	20	137	71	516	297	4687	365
1081.9	1084.4	1085	1089	54	2299	2378	298	2689	119	135	192	382	25	167	78	652	243	4700	284

SITE EAST BRANCH (25)

B DA= 1.65 SQ.MI. ELEV. BOTTOM C/L PROFILE= 1032.0										POTENTIAL USES-FC RE										
1040.1	1048.1	1050	1053	21	61	168	240	15	31	13	60	5	41	18	124	518				
1054.6	1058.9	1060	1063	31	400	461	688	40	50	39	112	10	56	34	212	331	3330	529	*	
1062.1	1065.1	1067	1070	38	752	813	1088	54	67	61	153	14	70	46	282	284	3943	375	*	
1067.9	1070.4	1072	1075	43	1104	1165	168	1344	70	80	85	195	16	81	57	349	260	4115	316	*
1076.6	1079.1	1080	1084	52	1808	1869	226	2106	93	102	136	289	20	122	71	502	238	4643	278	*

SITE EAST BRANCH TRIBUTARY (30)

1007.9	1014.3	1017	1021	22	64	116	191	14	30	22	83	7	28	25	143	748	*
1021.4	1024.8	1027	1030	31	350	414	557	38	51	54	143	13	50	43	248	445	708
1027.1	1029.6	1031	1035	36	606	670	132	813	52	62	76	182	15	60	54	311	383
1031.6	1034.1	1036	1039	40	862	926	149	1086	62	71	100	221	17	69	62	370	340
1038.9	1041.4	1042	1045	46	1374	1438	200	1649	79	88	145	304	21	83	73	480	291
				*	*	*	*	*	*	*	*	*	*	*	*	*	*

POTENTIAL USE ABBREVIATIONS

ALL DATA BASED ON PRELIMINARY

RESERVOIR LOCATIONS.

PRICE BASE YEAR 1970

SEDIMENT CONTROL

WATER QUALITY CONTROL

WATER SUPPLY

LOW FLOW AUGMENTATION

LAKE LEVEL REGULATION

RECREATION

FLOOD CONTROL

FISH AND WILDLIFE

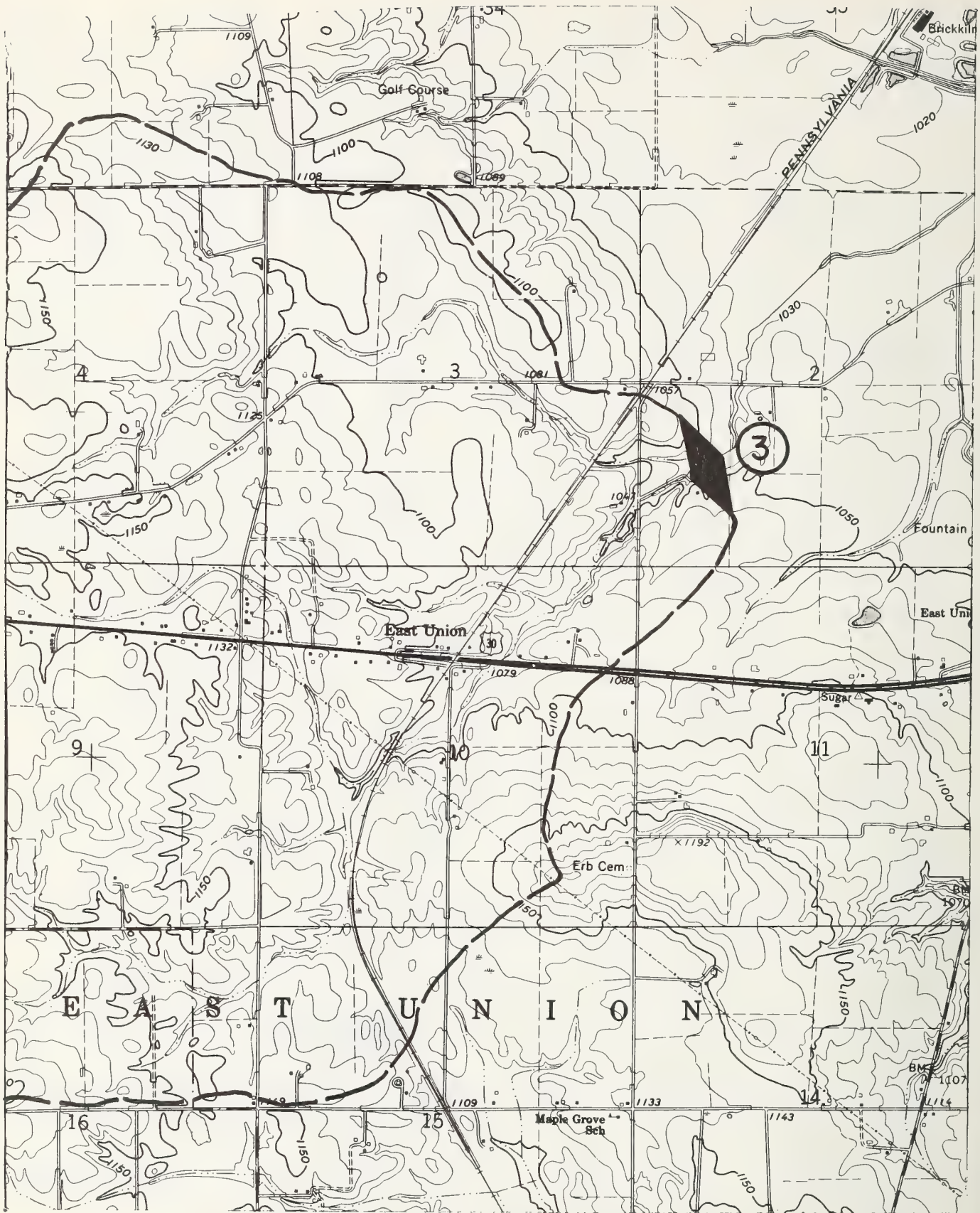
IRRIGATION

S. FORK SUGAR CR WSHD

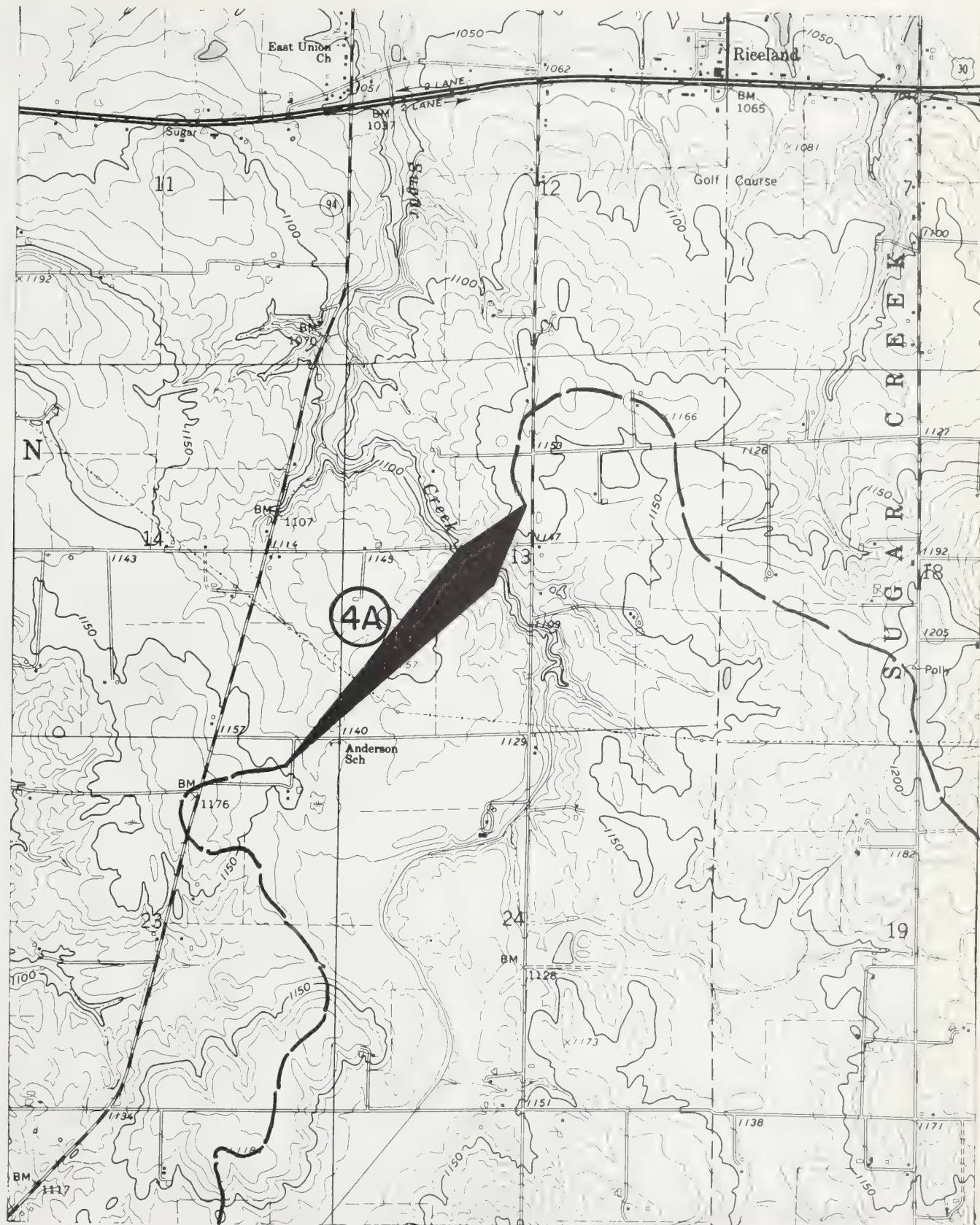
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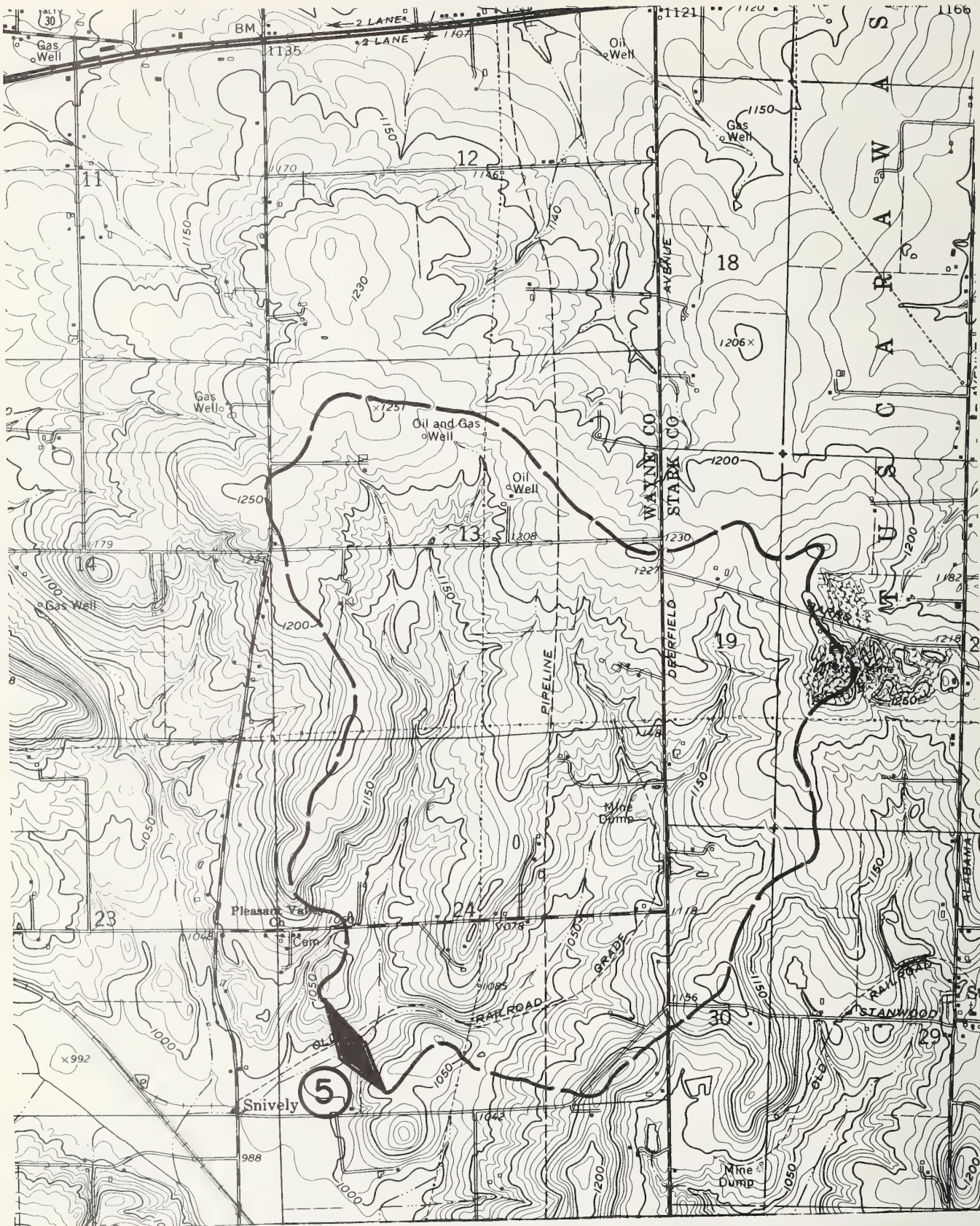
SITE NO. 4A-10 (1)
 SUBWATERSHED SUGARCREEK
 LOCATION CO. WAYNE TWP. WAYNE
 SEC. 12 SW 1 4 OF NW 1 4
 QUAD. SUGARCREEK
 SCALE 1:24000 C.I. 10 FT ft.



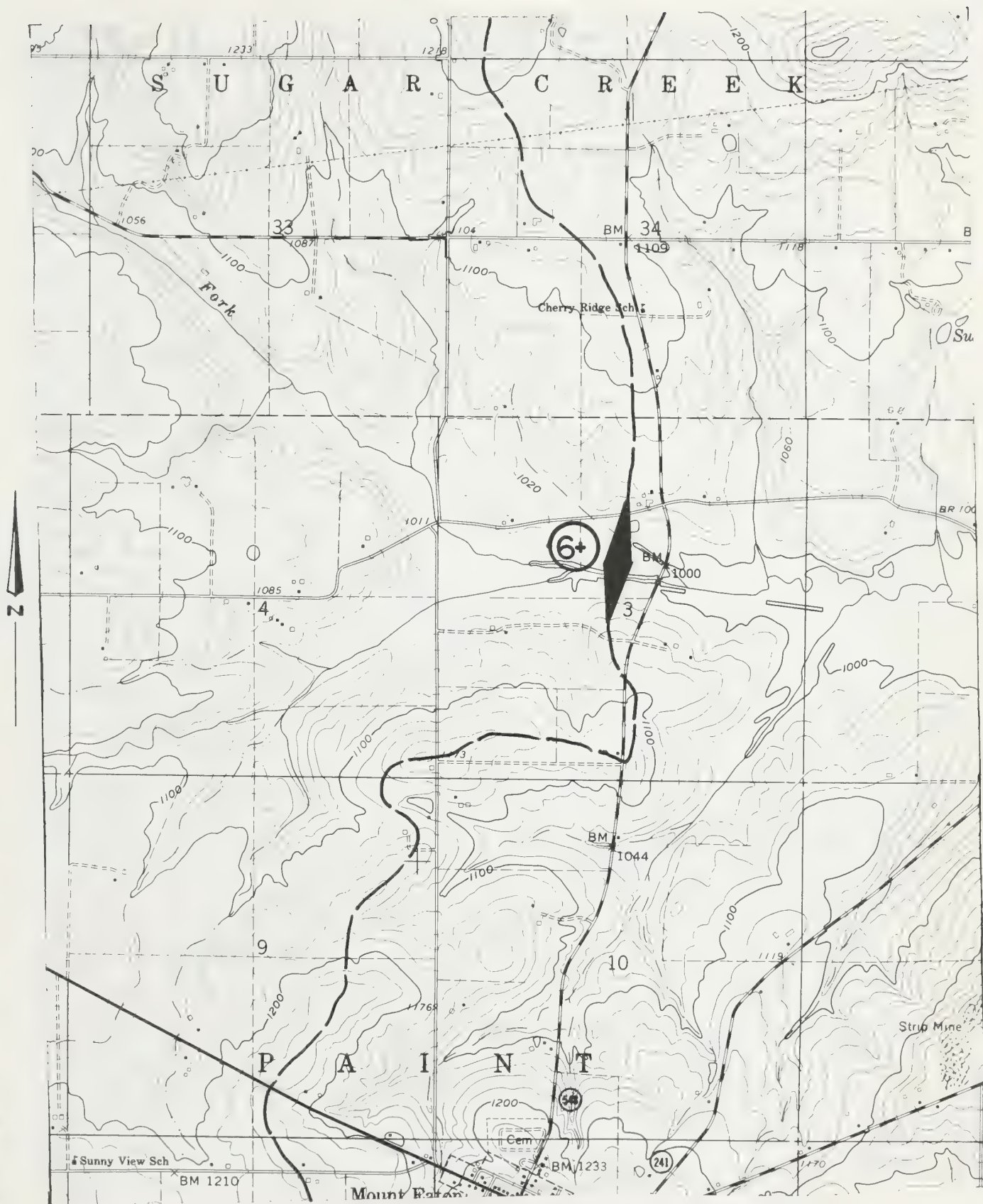
SITE NO. 4A-10 (3)
 SUBWATERSHED SUGAR CREEK
 LOCATION CO. WAYNE TWP. EAST UNION
 SEC. 2 SW⁴ OF SW⁴
 QUAD. ORRVILLE
 SCALE 1: 24000 C. I. 10 ft.



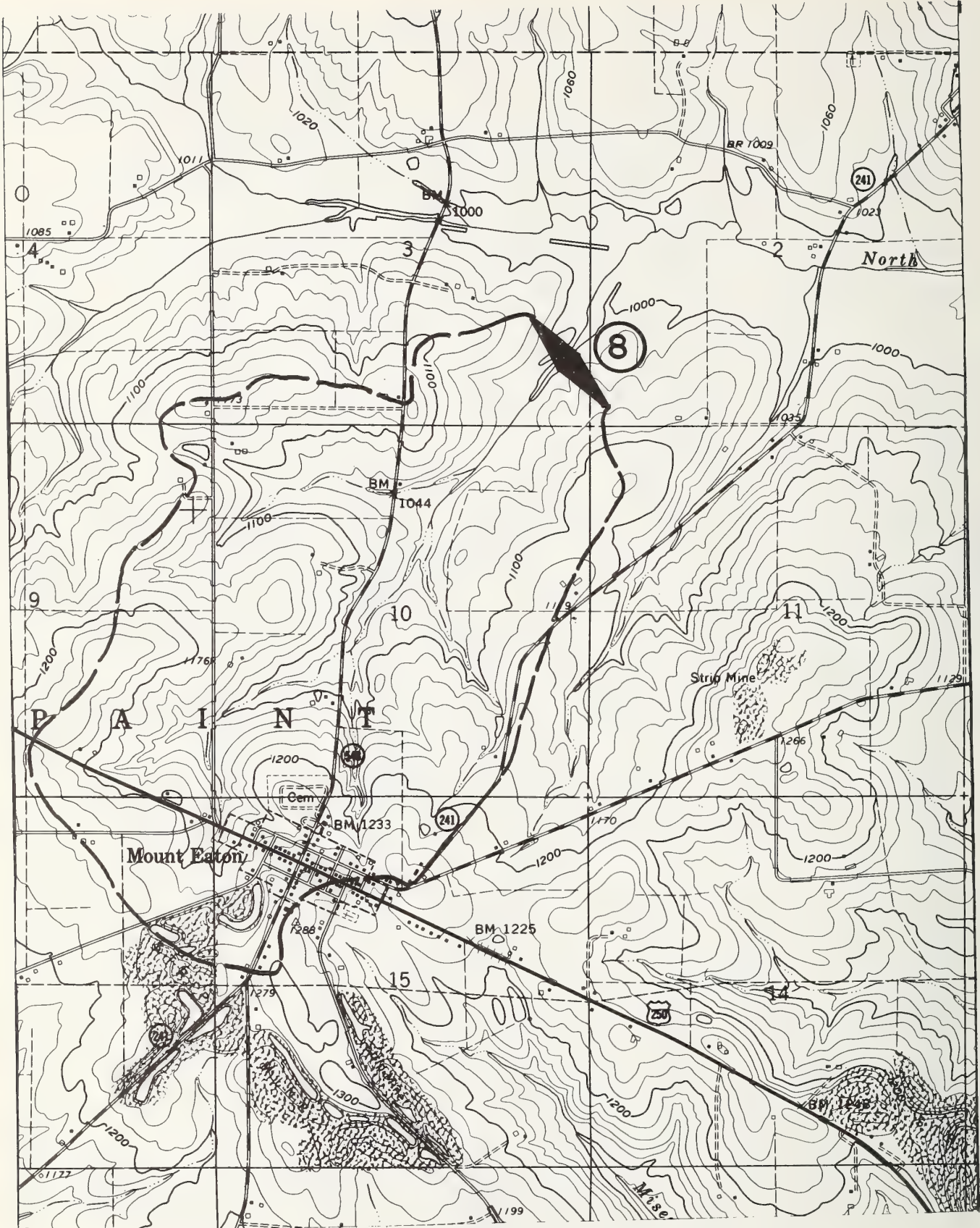
SITE NO. 4A-10 (4A)
 SUBWATERSHED SUGAR CREEK
 LOCATION CO. WAYNE TWP. EAST UNION
 SEC. 13 NE⁴ OF SW⁴
 QUAD. ORRVILLE
 SCALE 1:24000 C. I. 10 ft.



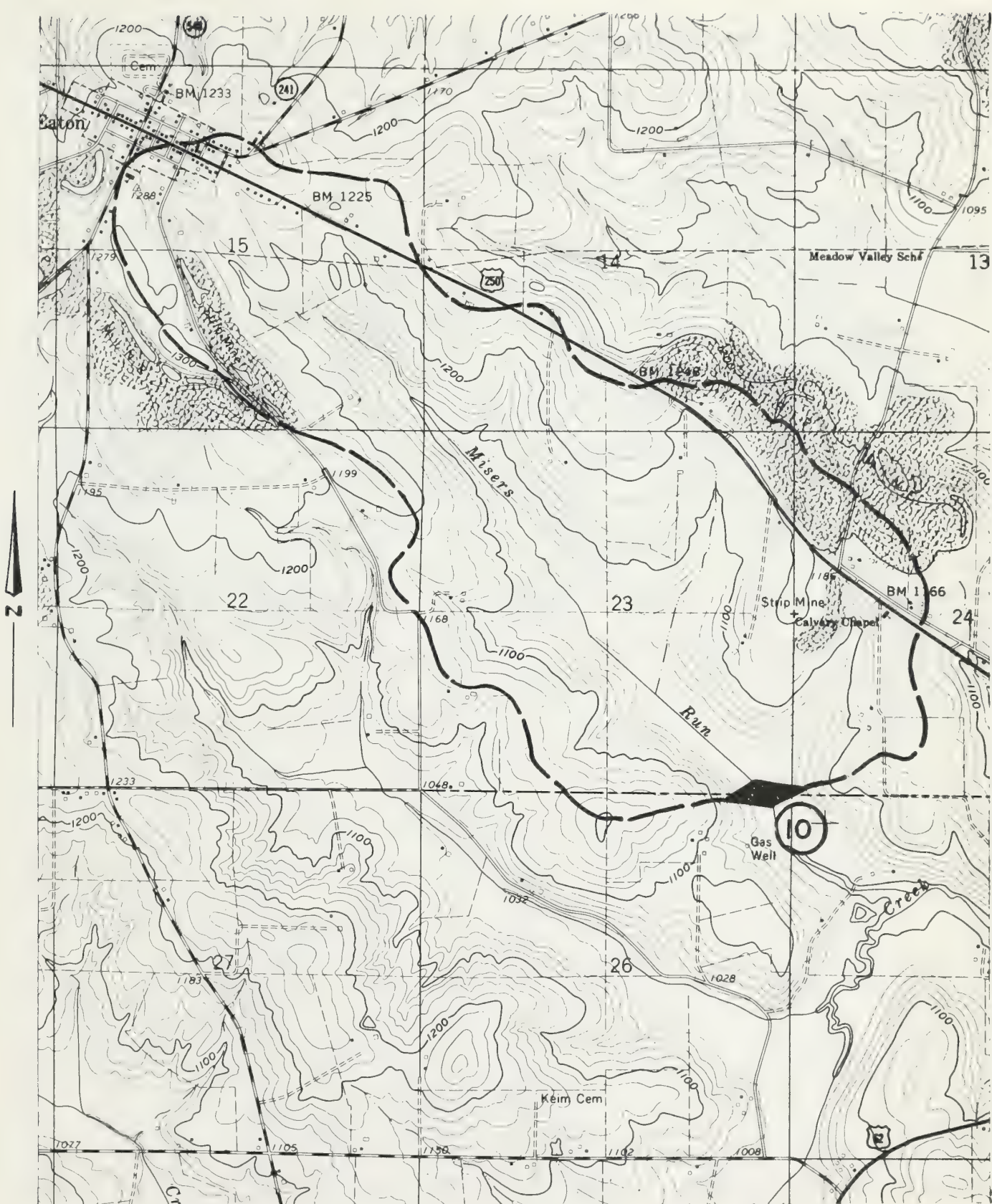
SITE NO. 4A-10 (5)
SUBWATERSHED SUGAR CREEK
LOCATION CO. WAYNE TWP. SUGAR CREEK
SEC. 24 SW⁴ OF SW⁴
QUAD. DALTON
SCALE 1:24000 C. I. 10 ft.



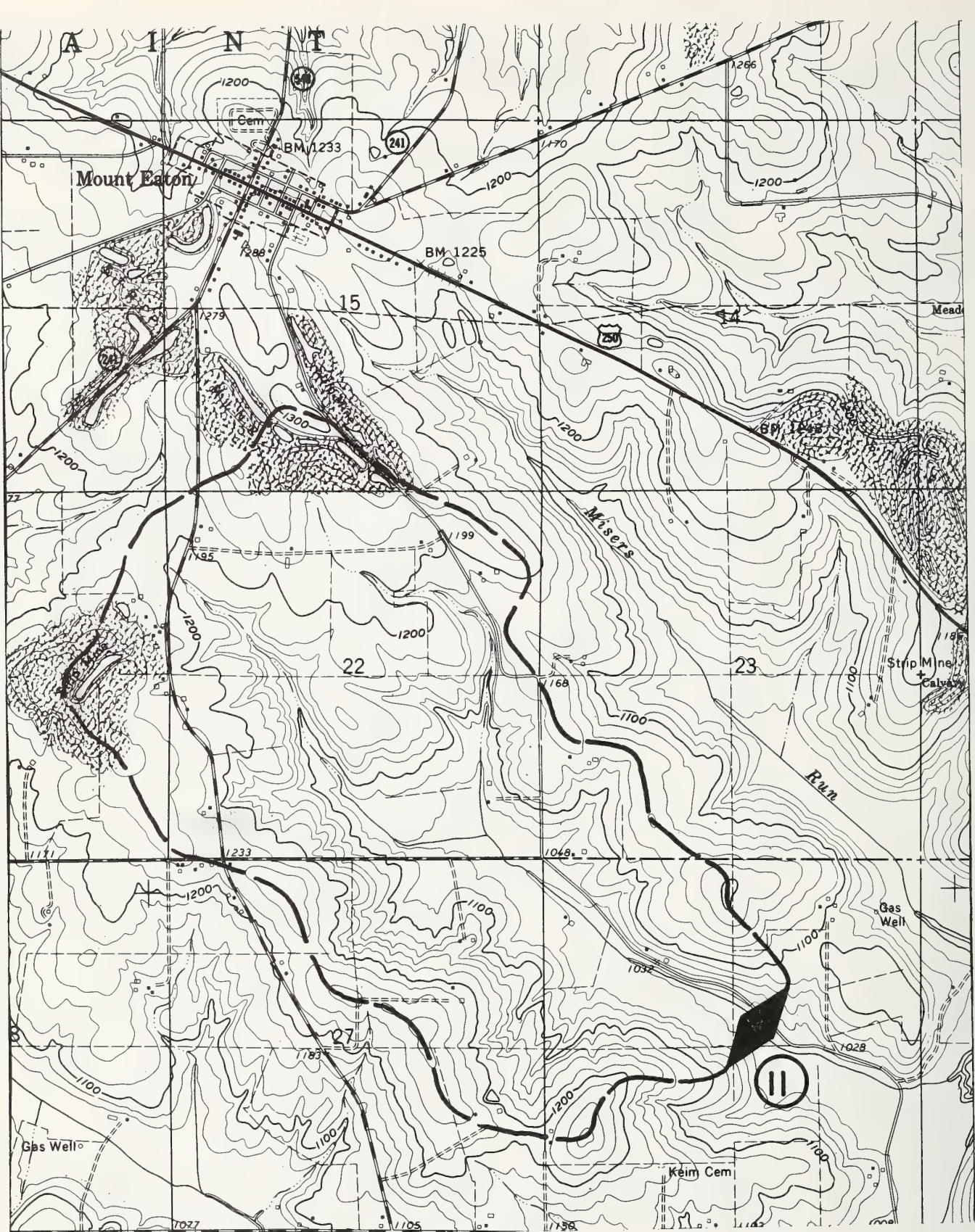
SITE NO. 4A-10 (6+)
 SUBWATERSHED SUGAR CREEK
 LOCATION CO. WAYNE TWP. PAINT
 SEC. 3 SE⁴ OF NW⁴
 QUAD. WILMOT
 SCALE 1:24000 C.I. 20 ft.



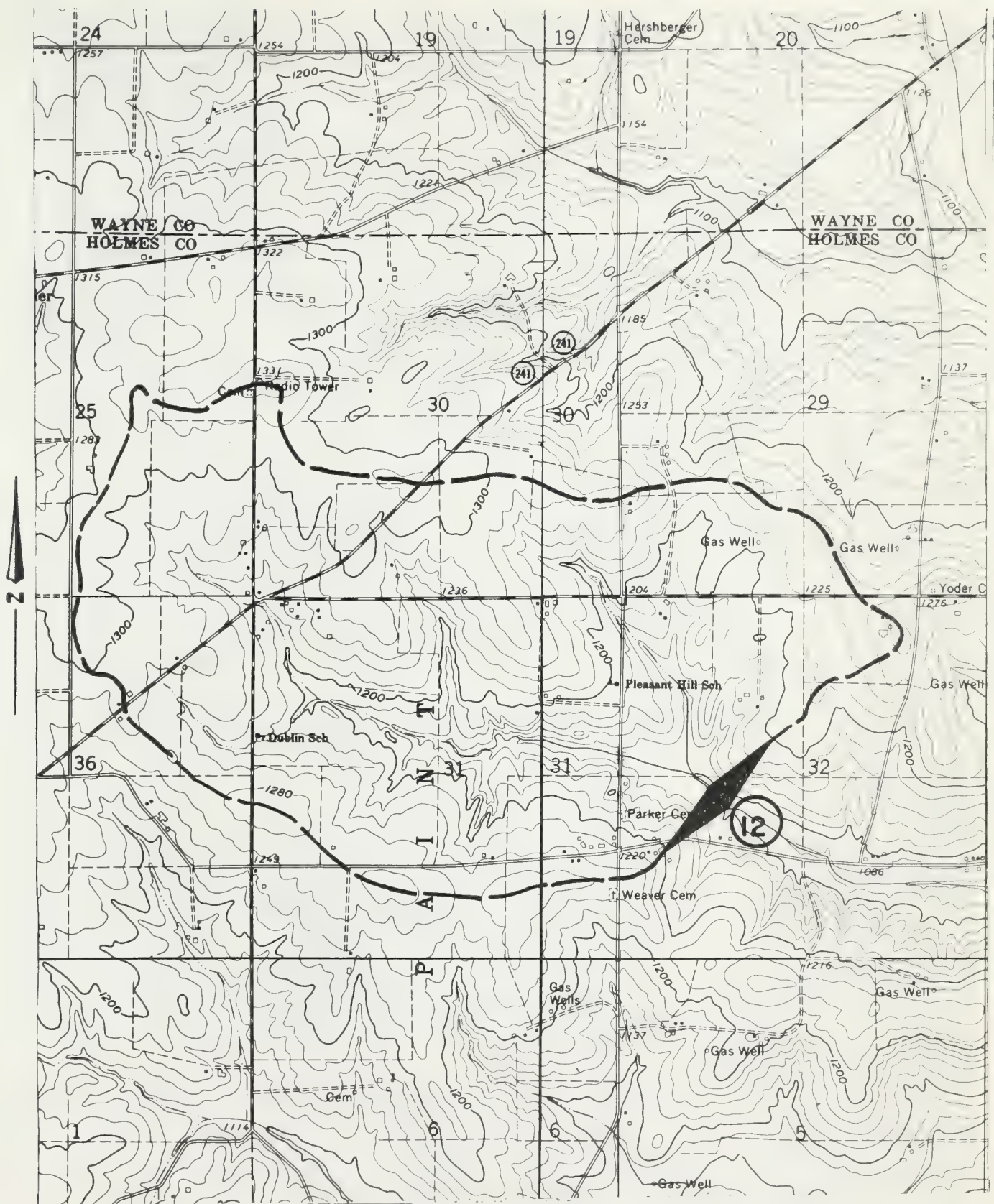
SITE NO. 4A-10 (8)
 SUBWATERSHED SUGAR CREEK
 LOCATION CO. WAYNE TWP. PAINT
 SEC. 3 SE⁴ OF SE⁴
 QUAD. WILMOT
 SCALE 1: 24000 C.I. 20 ft.



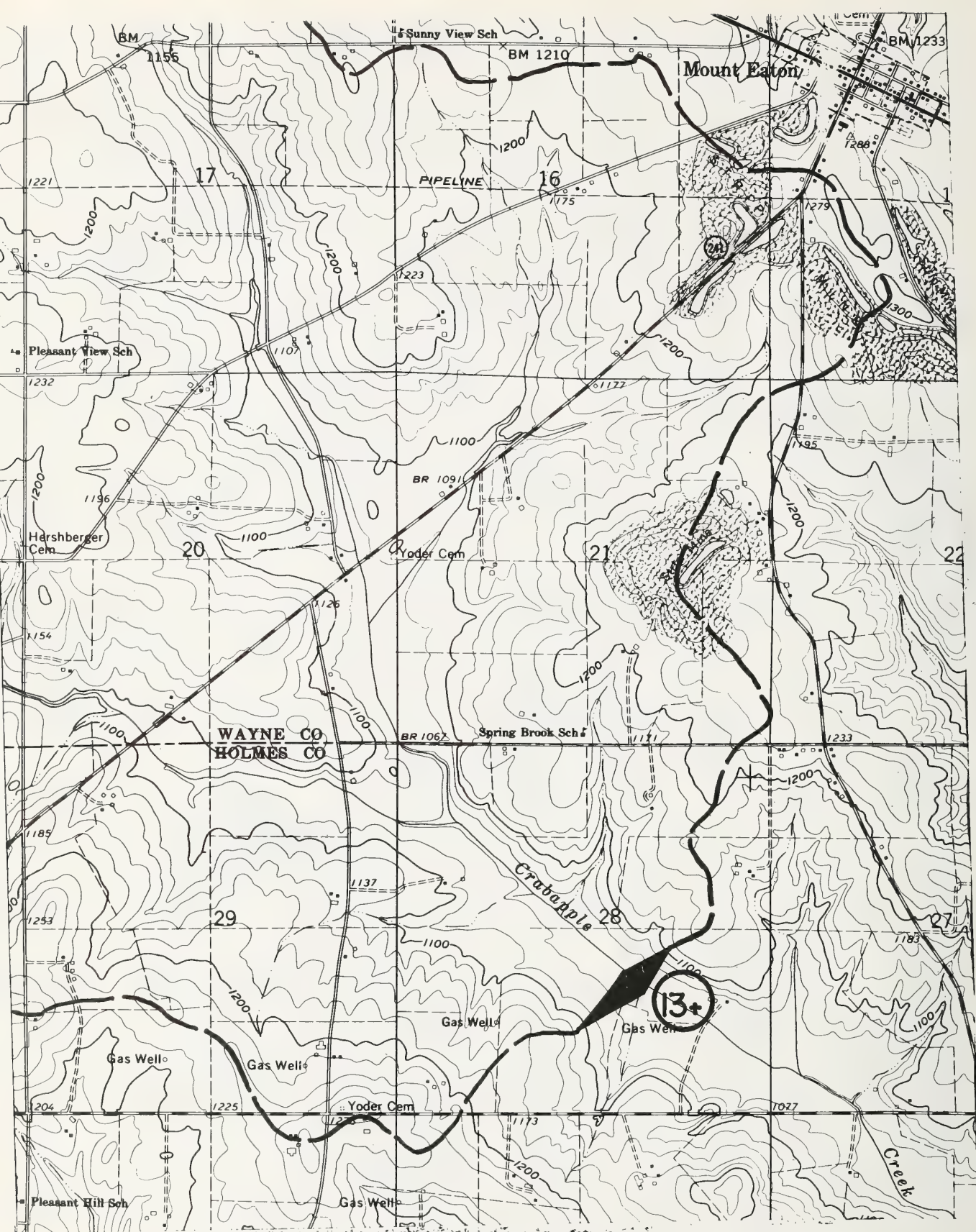
SITE NO. 4A-10 (10)
 SUBWATERSHED SUGAR CREEK
 LOCATION CO. WAYNE TWP. PAINT
 SEC. 23 SE⁴ OF SE⁴
 QUAD. WILMOT
 SCALE 1:24000 C. I. 20 ft.



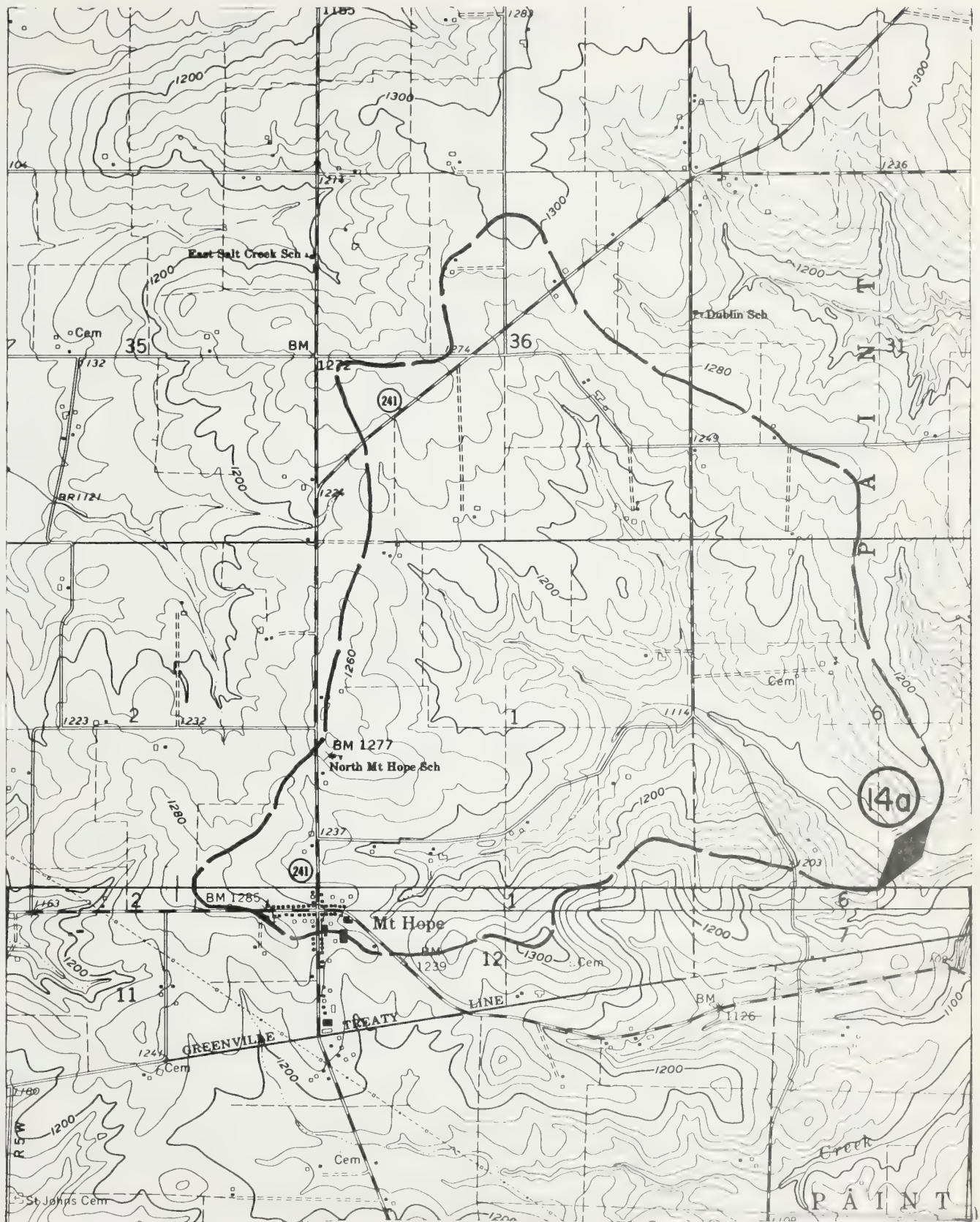
SITE NO. 4A-10 (11)
 SUBWATERSHED SUGAR CREEK
 LOCATION CO. HOLMES TWP. PAINT
 SEC. 26 SW⁴ OF NE⁴
 QUAD. WILMOT
 SCALE 1:24000 C.I. 20 ft.



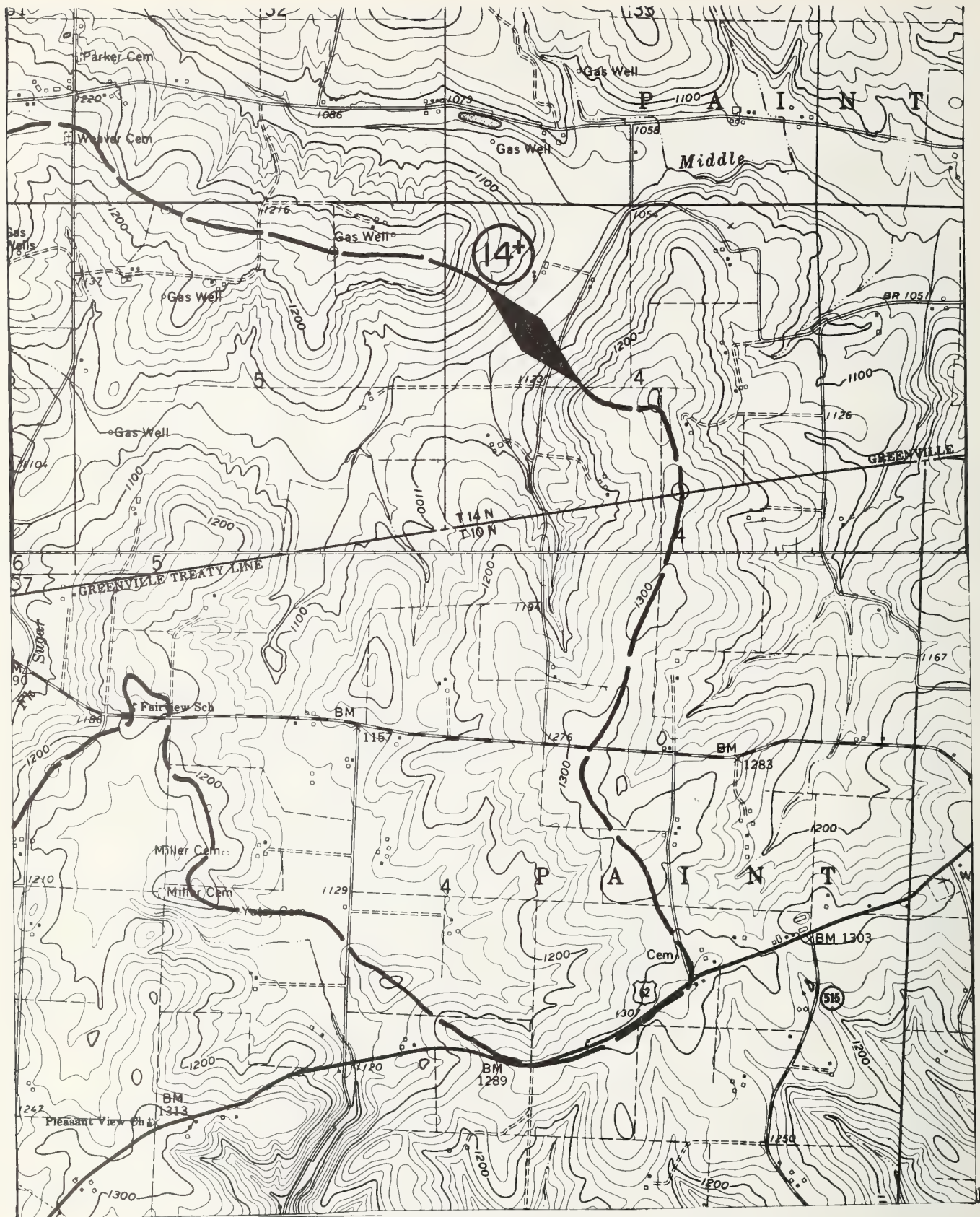
SITE NO. 4A-10 (12)
 SUBWATERSHED SUGAR CREEK
 LOCATION CO. HOLMES TWP. PAINT
 SEC. 32 NE⁴ OF SW⁴
 QUAD. WILMOT
 SCALE 1:24000 C. I. 20 ft.



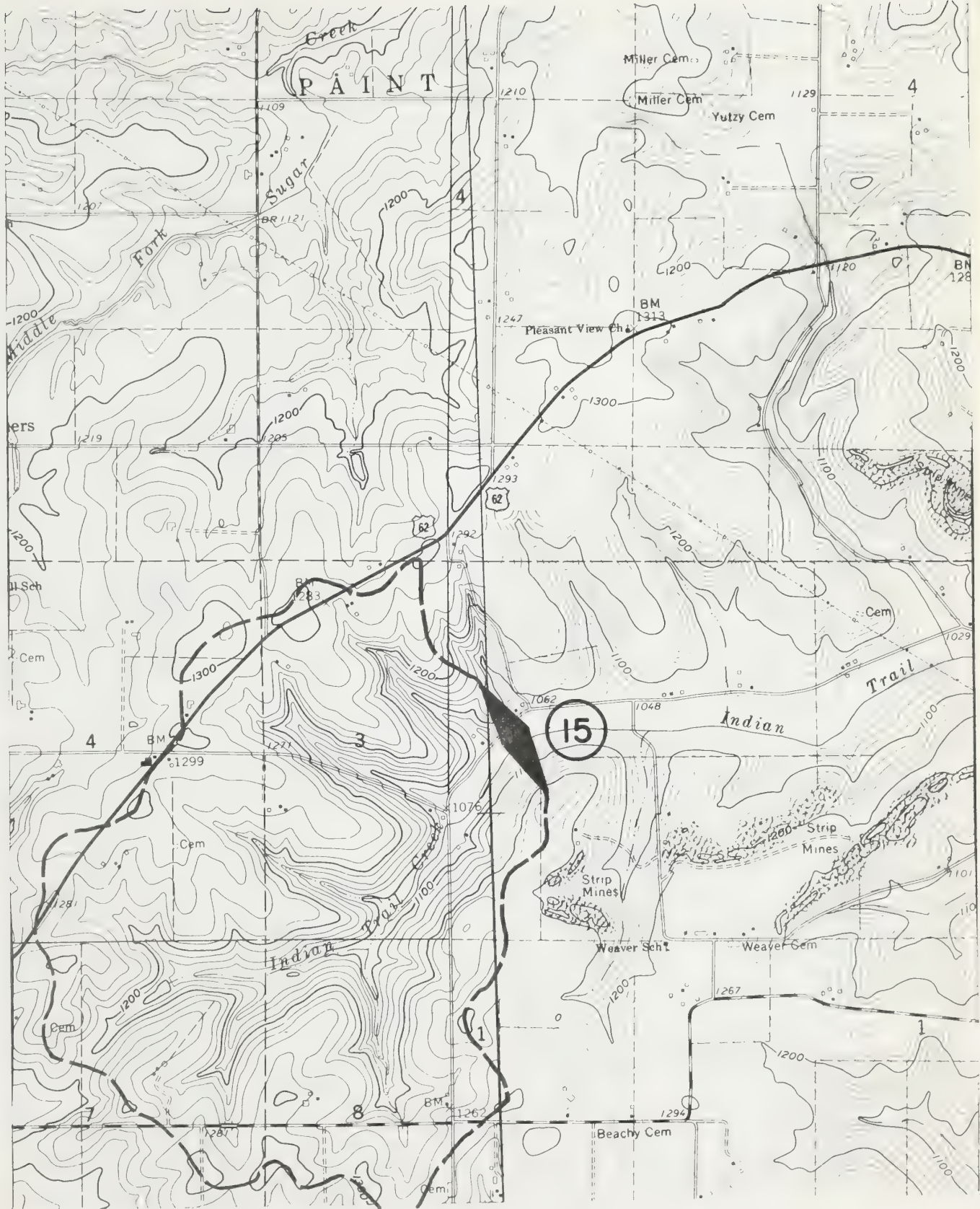
SITE NO. 4A-10 (13+)
 SUBWATERSHED SUGAR CREEK
 LOCATION CO. HOLMES TWP. PAINT
 SEC. 28 NW 1/4 OF SE 1/4
 QUAD. WILMOT
 SCALE 1:24000 C.I. 20 FT. ft.



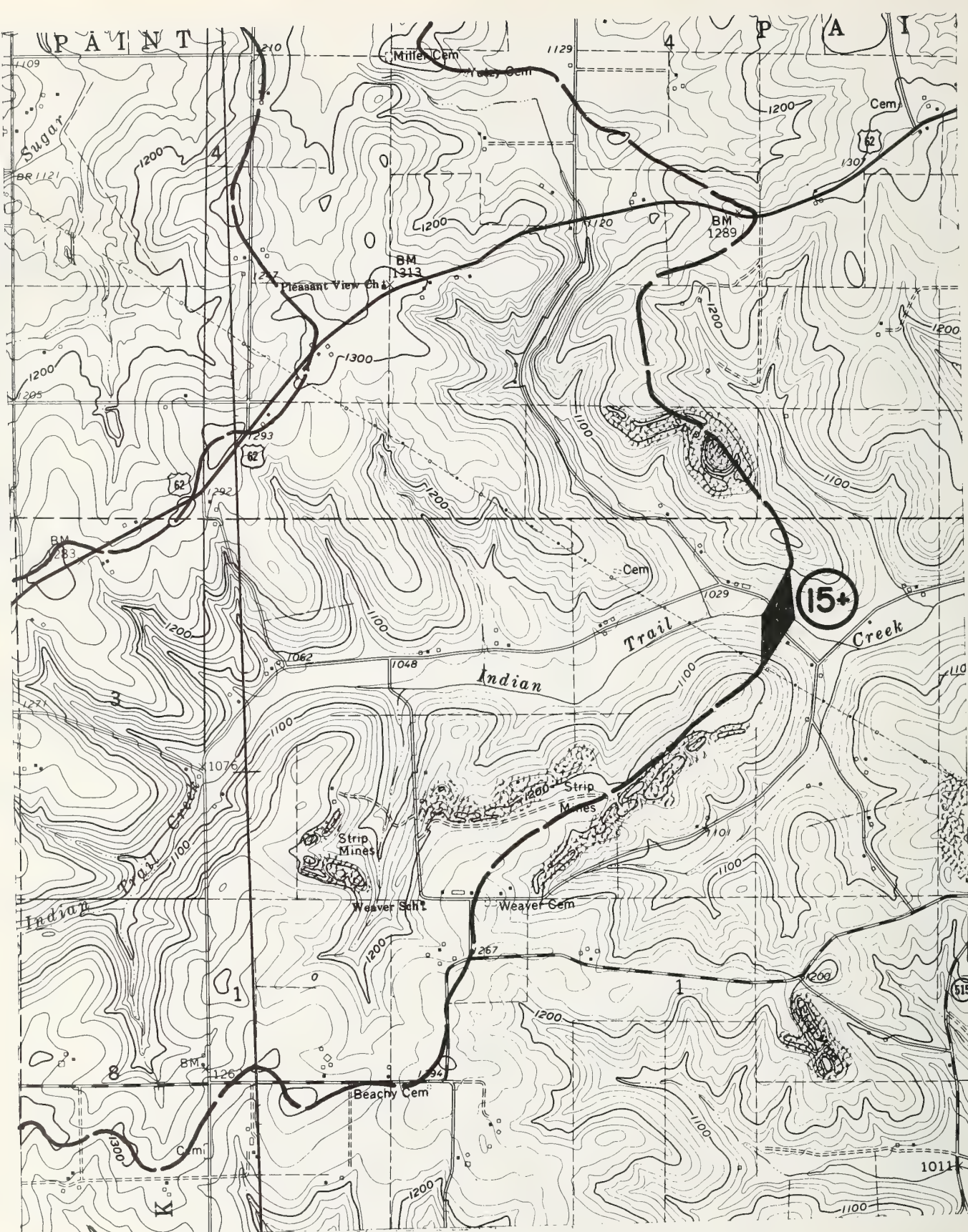
SITE NO. 4A-10 (14A)
 SUBWATERSHED SUGAR CREEK
 LOCATION CO. HOLMES TWP. PAINT
 SEC. 6 SW 1/4 OF SE 1/4
 QUAD. FREDERICKSBURG
 SCALE 1:24000 C. I. 20 FT ft.



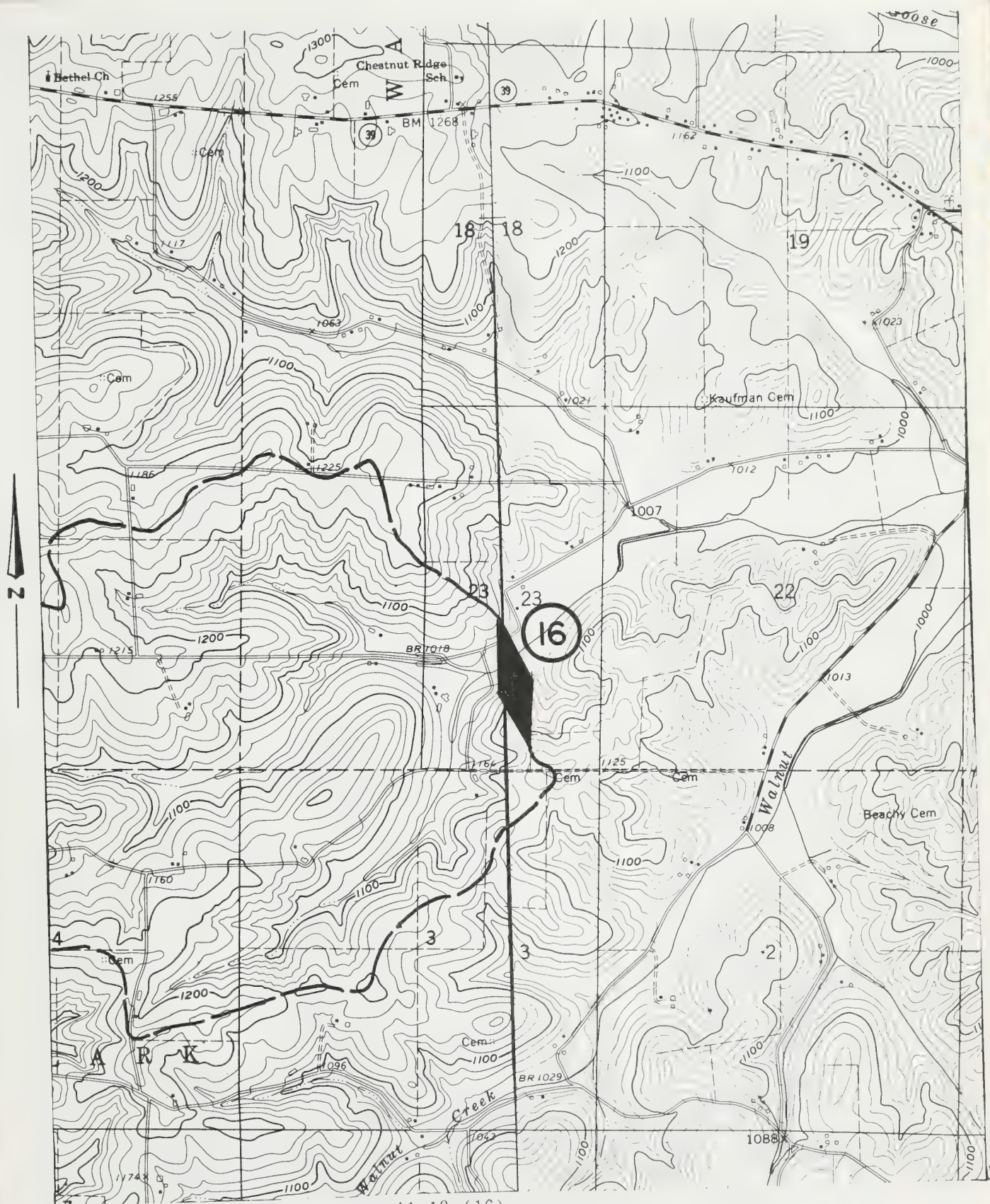
SITE NO. 4A-10 (14+)
 SUBWATERSHED SUGAR CREEK
 LOCATION CO. HOLMES TWP. PAINT
 SEC. 4 SW⁴ OF NW⁴
 QUAD. WILMOT
 SCALE 1:24000 C.I. 20 ft.



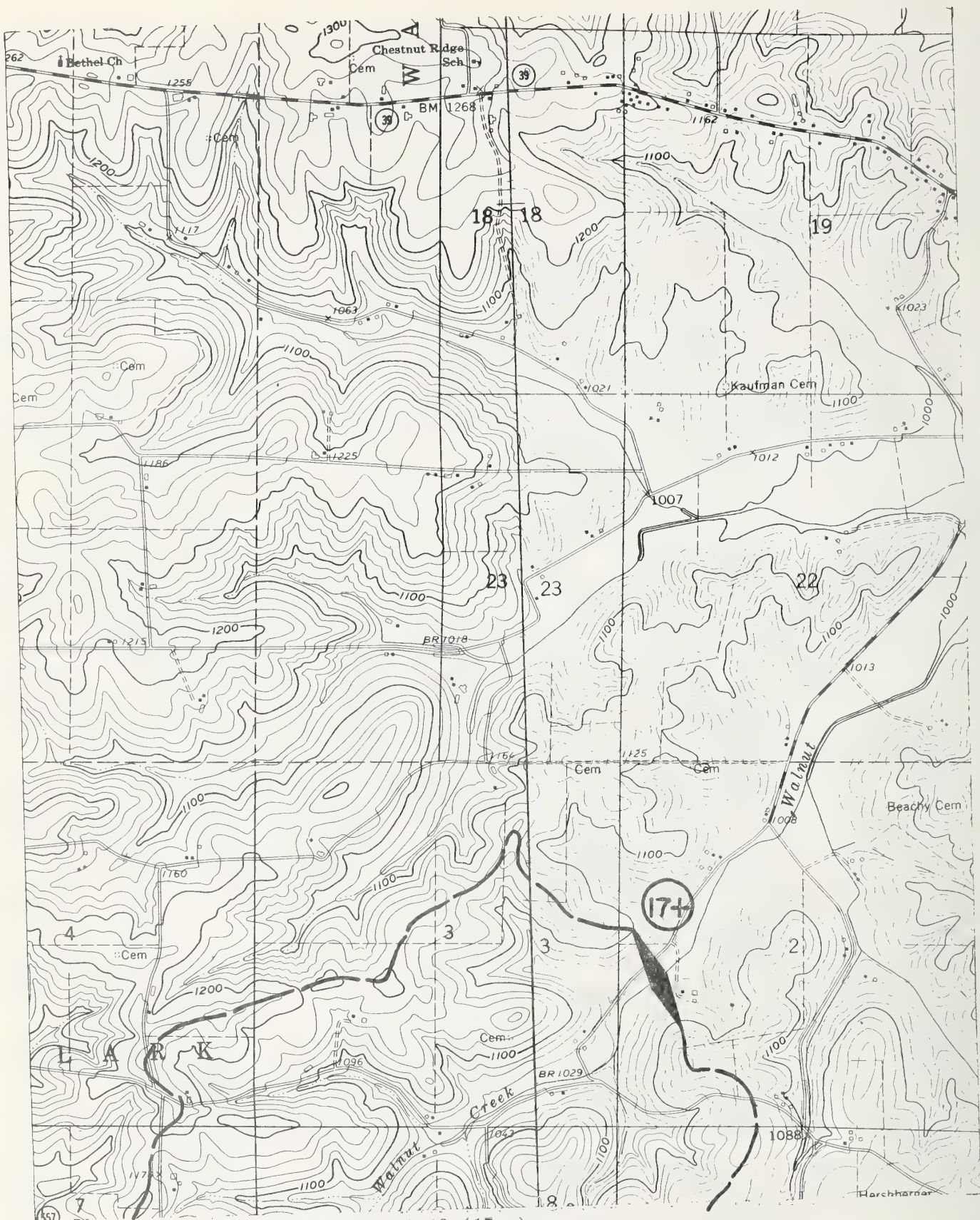
SITE NO. 4A-10 (15)
 SUBWATERSHED SUGAR CREEK
 LOCATION CO. HOLMES TWP. WALNUT
 SEC. LOT 1 NW⁴ OF NW⁴
 QUAD. SUGAR CREEK
 SCALE 1:24000 C.I. 20 ft.



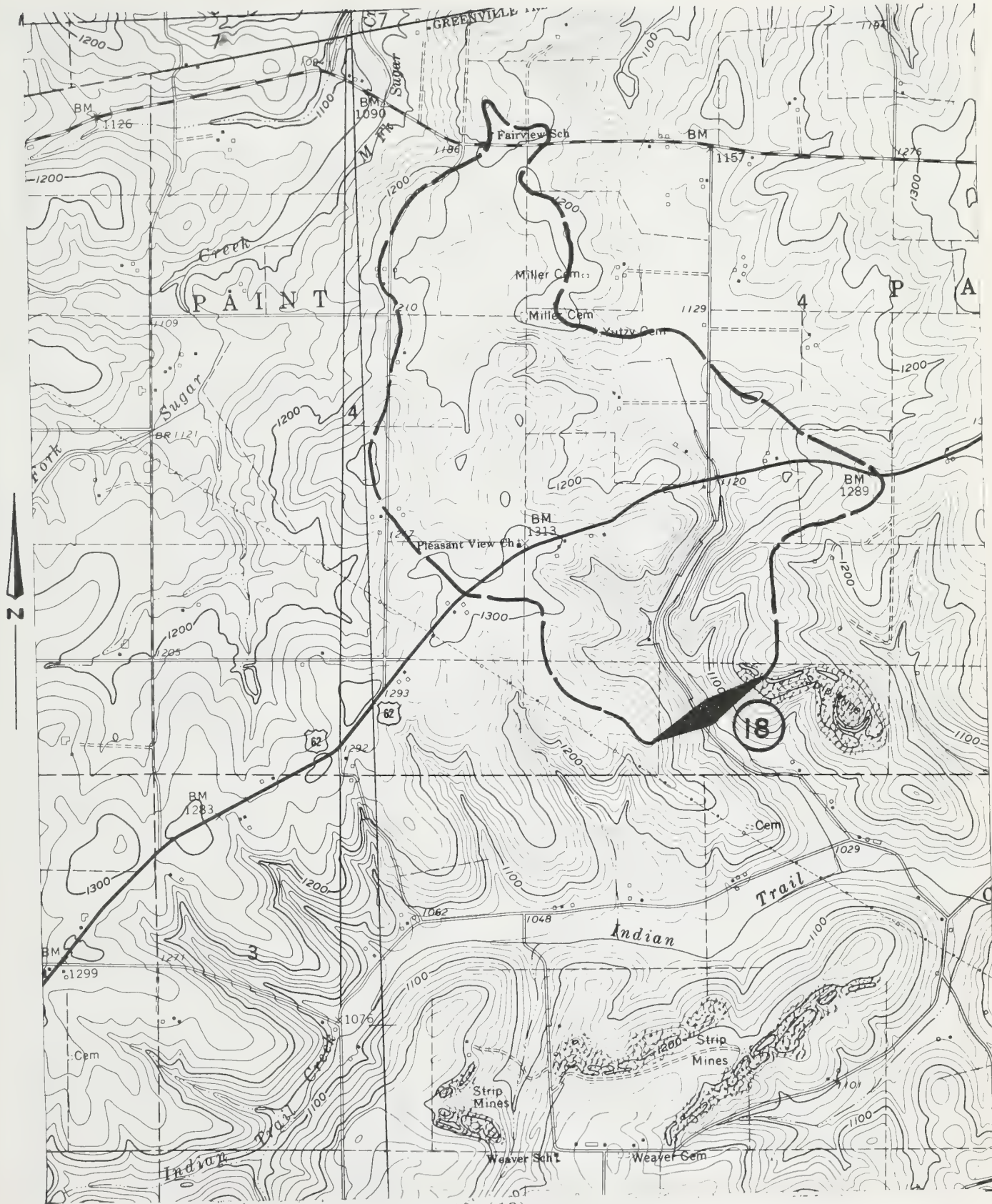
SITE NO. 4A-10 (15)
 SUBWATERSHED SUGARCREEK
 LOCATION CO. HOLMES TWP. WALNUT
 SEC. LOT 1 NW 1/4 OF NE 1/4
 QUAD. SUGARCREEK
 SCALE 1:24000 C.I. 20 FT. ft.



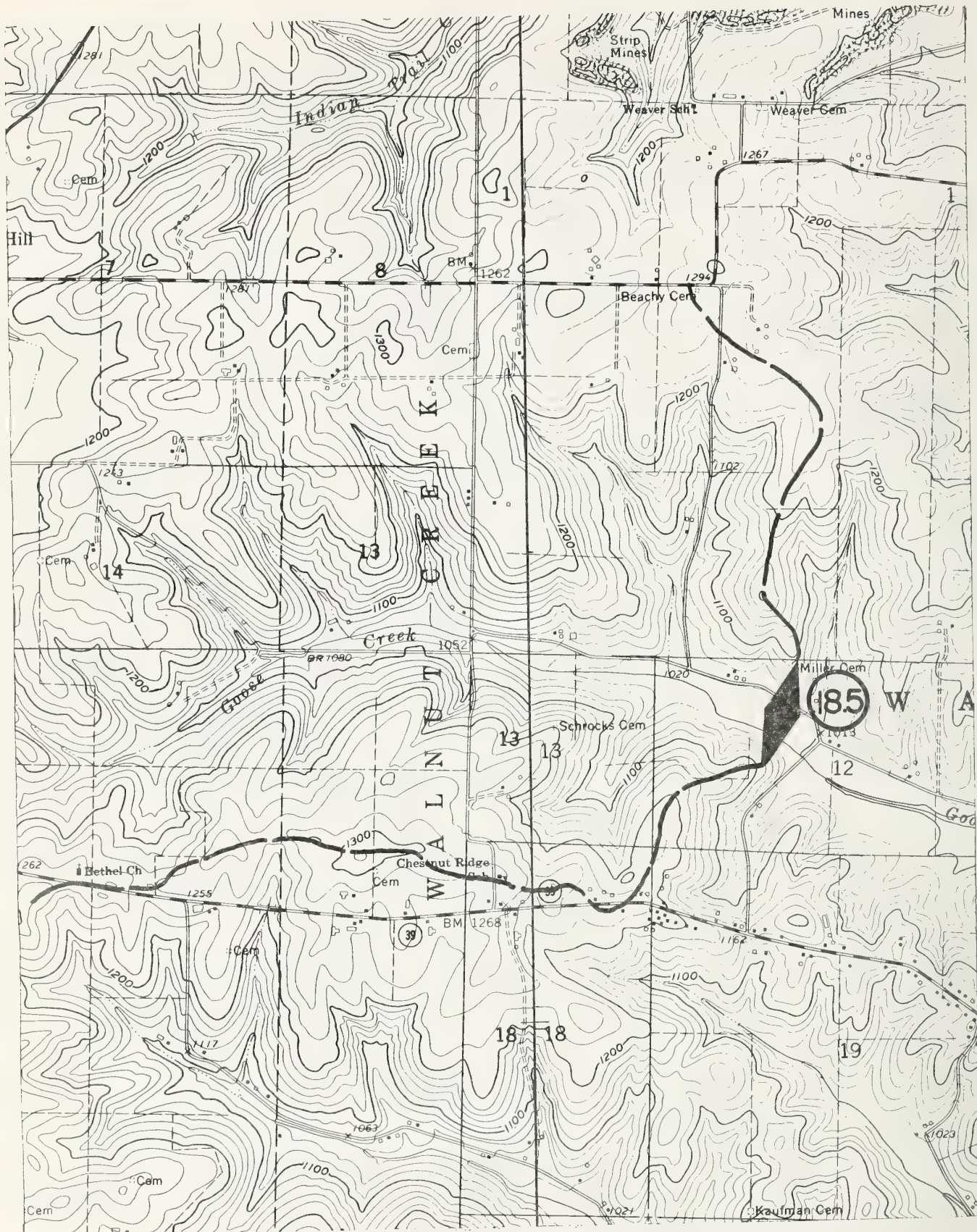
SITE NO. 4A-10 (16)
 SUBWATERSHED SUGAR CREEK
 LOCATION CO. HOLMES TWP. WALNUT
 SEC. 23 NE⁴ OF SW⁴
 QUAD. SUGAR CREEK
 SCALE 1: 24000 C. I. 20 ft.



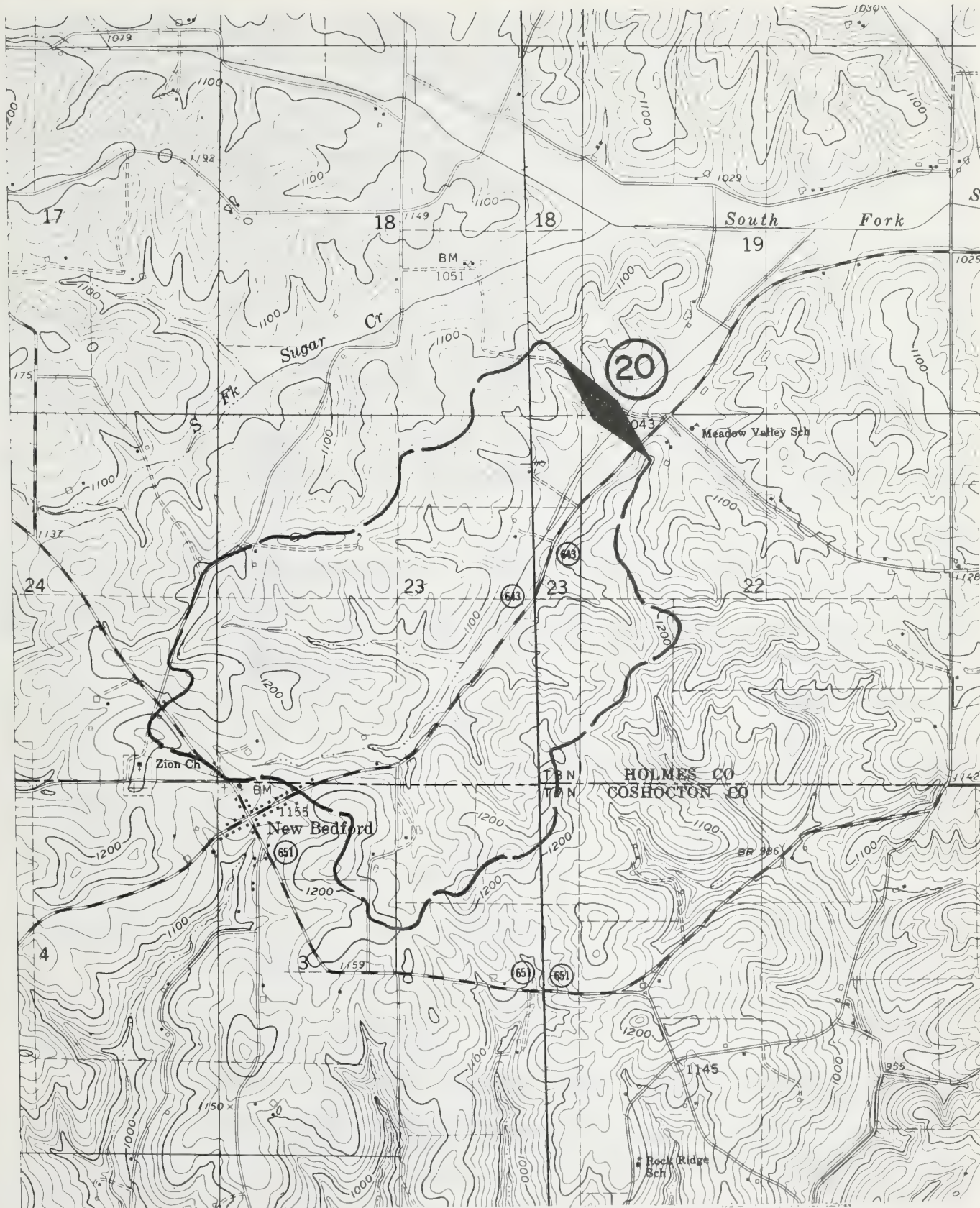
SITE NO. 4A-10 (17+)
 SUBWATERSHED SUGAR CREEK
 LOCATION CO. HOLMES TWP. CLARK
 SEC. 2 NW⁴ OF SW⁴
 QUAD. SUGARCREEK
 SCALE 1: 24000 C. I. 20 ft.



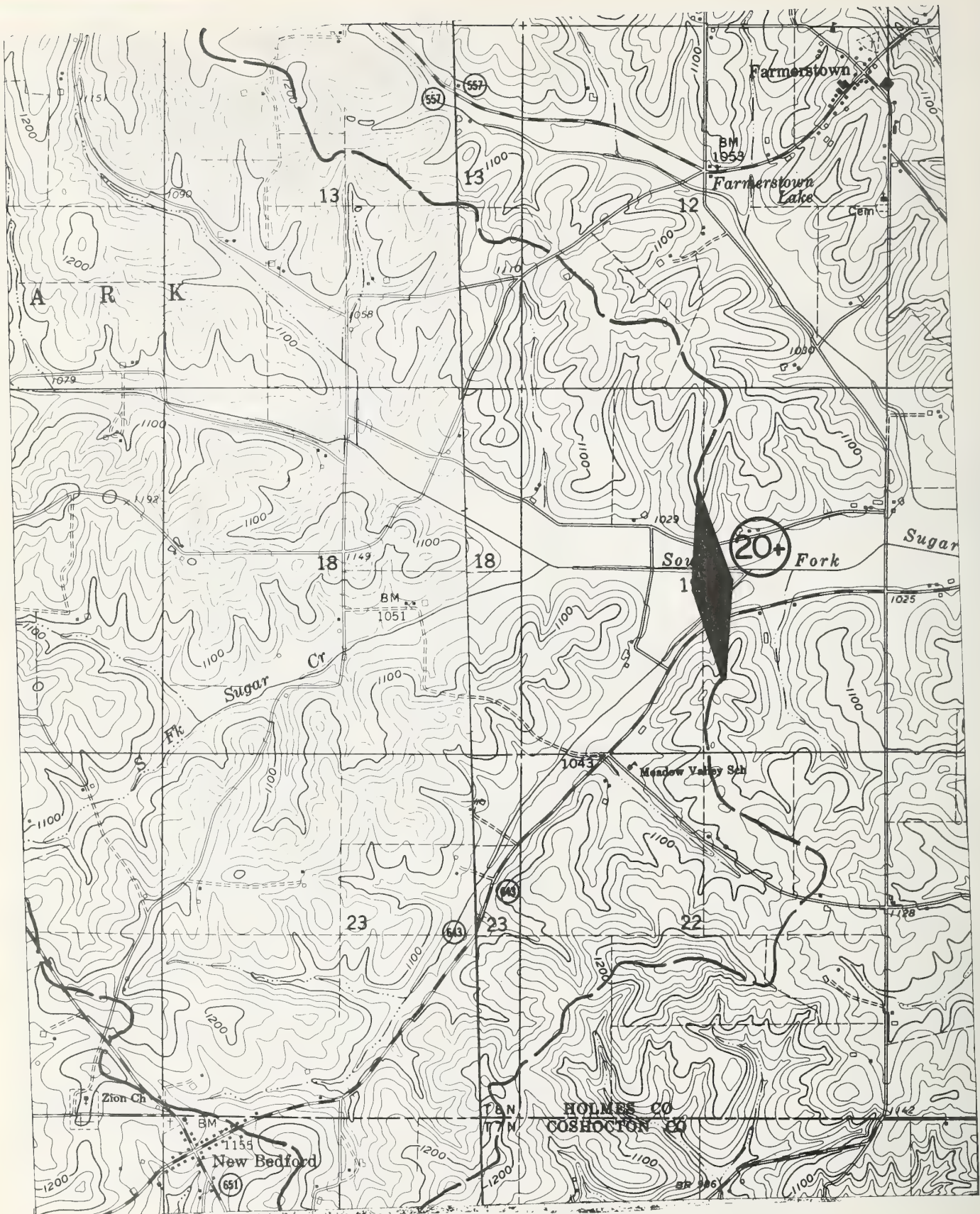
SITE NO. 4A-10 (18)
 SUBWATERSHED SUGAR CREEK
 LOCATION CO. HOLMES TWP. PAINT
 SEC. 4 SE⁴ OF SW⁴
 QUAD. SUGARCREEK
 SCALE 1:24000 C.I. 20 ft.



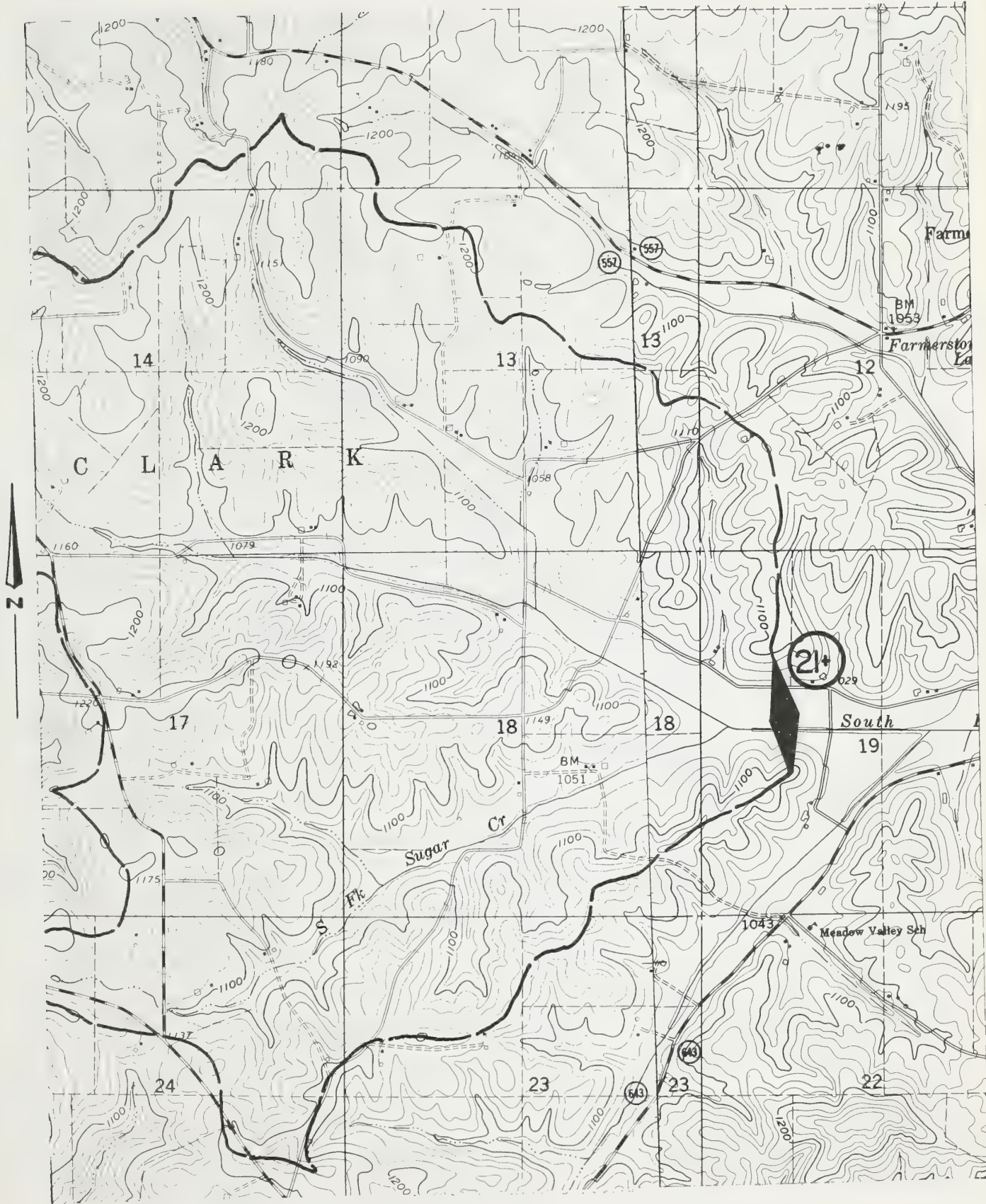
SITE NO. 4A-10 (18.5)
SUBWATERSHED SUGARCREEK
LOCATION CO. HOLMES TWP. WALNUT
SEC. 12 SE 1/4 OF NW 1/4
QUAD. SUGARCREEK
SCALE 1:24000 C.I. 20 FT. ft.



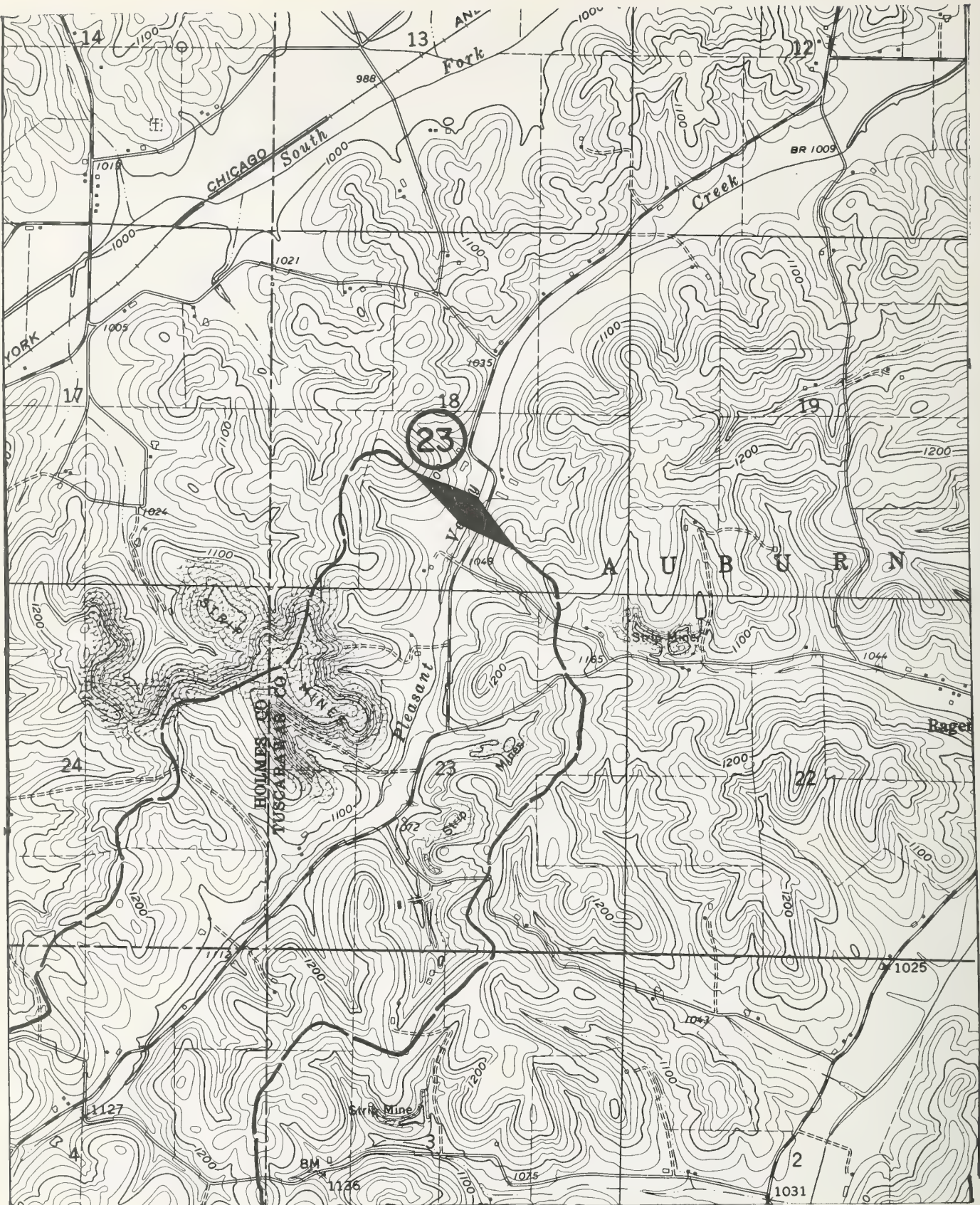
SITE NO. 4A-10 (20)
 SUBWATERSHED SUGAR CREEK
 LOCATION CO. HOLMES TWP. CLARK
 SEC. 19 SW 1/4 OF SW 1/4
 QUAD. BALTIC
 SCALE 1:24000 C.I. 20 FT. ft.



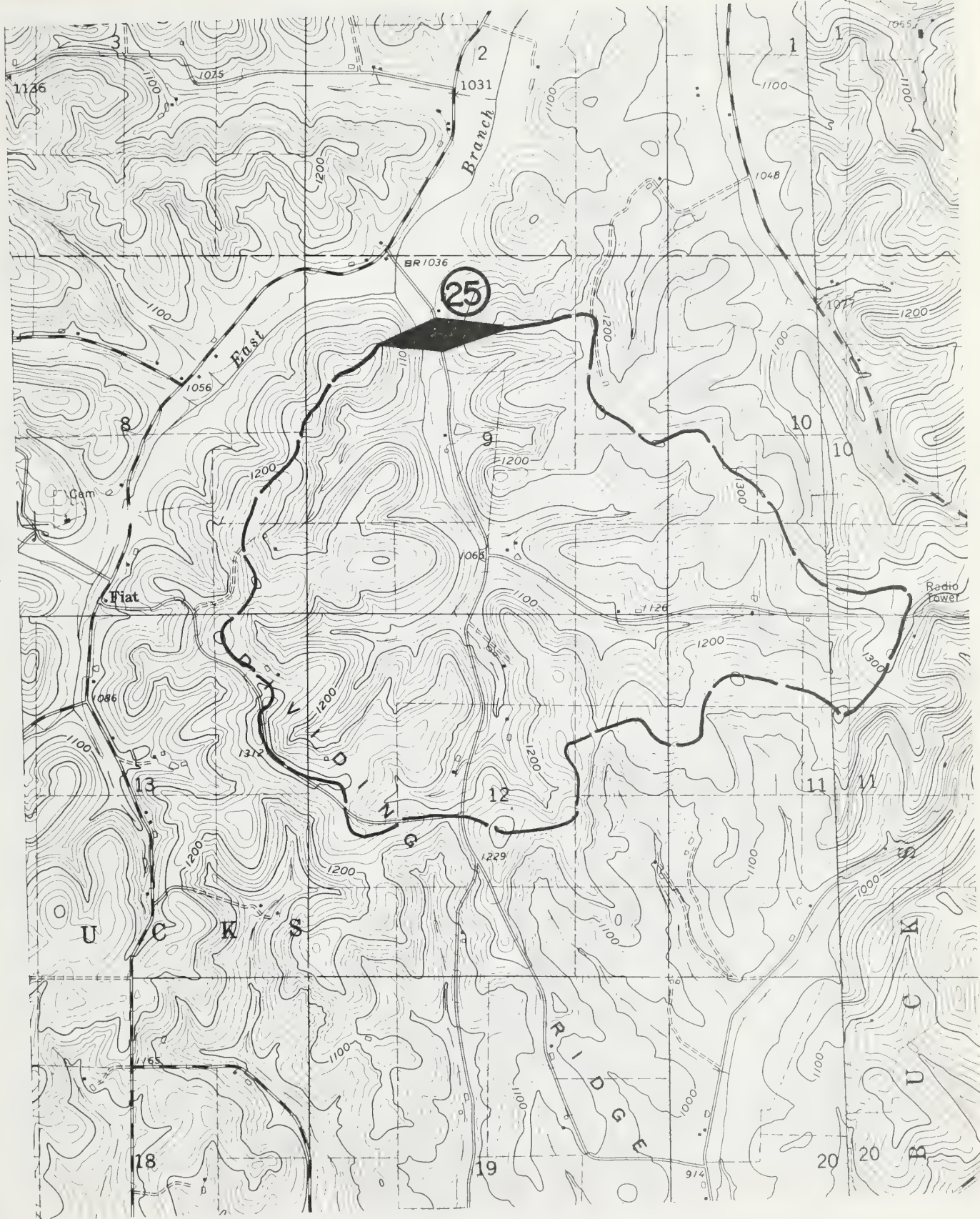
SITE NO. 4A-10 (20+)
 SUBWATERSHED SUGAR CREEK
 LOCATION CO. HOLMES TWP. CLARK
 SEC. 19 SW 1/4 OF NE 1/4
 QUAD. BALTIC
 SCALE 1:24000 C.I. 20 FT ft.



SITE NO. 4A - 10- (21 +)
 SUBWATERSHED SUGAR CREEK
 LOCATION CO. HOLMES TWP. CLARK
 SEC. 19 SW 1/4 OF NW 1/4
 QUAD. BALTIC
 SCALE 1:24000 C.I. 20 FT. ft.



SITE NO. 4A-10 (23)
SUBWATERSHED SUGAR CREEK
LOCATION CO. TUSCARAWAS TWP. AUBURN
SEC. 18 SW⁴ OF SE⁴
QUAD. BALTIC
SCALE 1:24000 C.I. 20 ft.



SITE NO. 4A-10 (25)
SUBWATERSHED SUGAR CREEK
LOCATION CO. TUSCARAWAS TWP. BUCKS
SEC. 9 NE 1/4 OF NW 1 4
QUAD. BALTIC
SCALE 1:24000 C.I. 20 FT. ft.



SITE NO. 4A-10 (30)
 SUBWATERSHED SUGAR CREEK
 LOCATION CO. TUSCARAWAS TWP. AUBURN
 SEC. 16 SW⁴ OF NW⁴
 QUAD. STONE CREEK
 SCALE 1:24000 C.I. 20 ft.



SITE NO. 4A-10 (31)
 SUBWATERSHED SUGAR CREEK
 LOCATION CO. TUSCARAWAS TWP. SUGAR CR.
 SEC. 6 SW 1 4 OF SE 1 4
 QUAD. STONE CREEK
 SCALE 1:24000 C.I. 20 FT ft.

**UPPER TUSCARAWAS RIVER
SUB BASIN**



MUSKINGUM RIVER BASIN **UPPER TUSCARAWAS SUB BASIN**

STATE: OHIO

MEDINA, SUMMIT, WAYNE, STARK, TUSCARAWAS COUNTIES

SCALE 1/417,000

POTENTIAL RESERVOIR SITE IGN AND COST SUMMARY NO. 1

OHIO MUSKINGUM RIVER BASIN										TUSCARAWAS SUBBASIN										SIPPO WSHD.									

CON-INT-10

ALL DATA BASED ON PRELIMINARY
RESERVOIR LOCATIONS.

POTENTIAL USE ABBREVIATIONS

SD	SEDIMENT CONTROL
WQ	WATER QUALITY CONTROL

PRICE BASE YEAR 1970

POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 1

OHIO MUSKINGUM RIVER BASIN

TUSCARAWAS SUBBASIN

PIGEON WSHD

ELEVATION (FT MSL) *HGT * STORAGE (AC-FT) * SURFACE * FILL * INSTALLATION COST * UNIT COST *GROSS YIELD
* (FT) * * (AC) * YDS) * (\$1000) * (\$) PER * (MGD)

NORM EMERG DSGN TOP *MAX * BEN NORM TEMP TOTAL * NORM DSGN* VOL *CONST ENGR L/R PROJ TOTAL*AC-FT ACRE AC-FT* FOR
POOL SPY HIGH OF *HGT * USE POOL FLOOD E-S. * POOL HIGH* ADM *STORE BEN BEN # 2
CREST WATER DAM * * CREST * WTR * *ALLOC ALLOC STORE# P.C.

SITE PIGEON RUN (1) B DA= 5.25 SQ.MI. ELEV. BOTTOM C/L PROFILE= 1002.0 POTENTIAL USES-FC RE

1020.3 1038.4 1042 1046 * 44 * 162 863 1056 * 25 89 * 134 * 298 20 96 72 487* 461 *
1040.9 1050.3 1053 1057 * 55 * 1100 1262 947 2240 * 84 140 * 243 * 491 30 142 89 752* 336 4387 683* 1.10
1046.6 1054.3 1057 1060 * 58 * 1652 1815 947 2793 * 110 157 * 274 * 550 33 154 99 836* 299 4498 506* 1.47

* * * * *
* * * * *
* * * * *

POTENTIAL USE ABBREVIATIONS

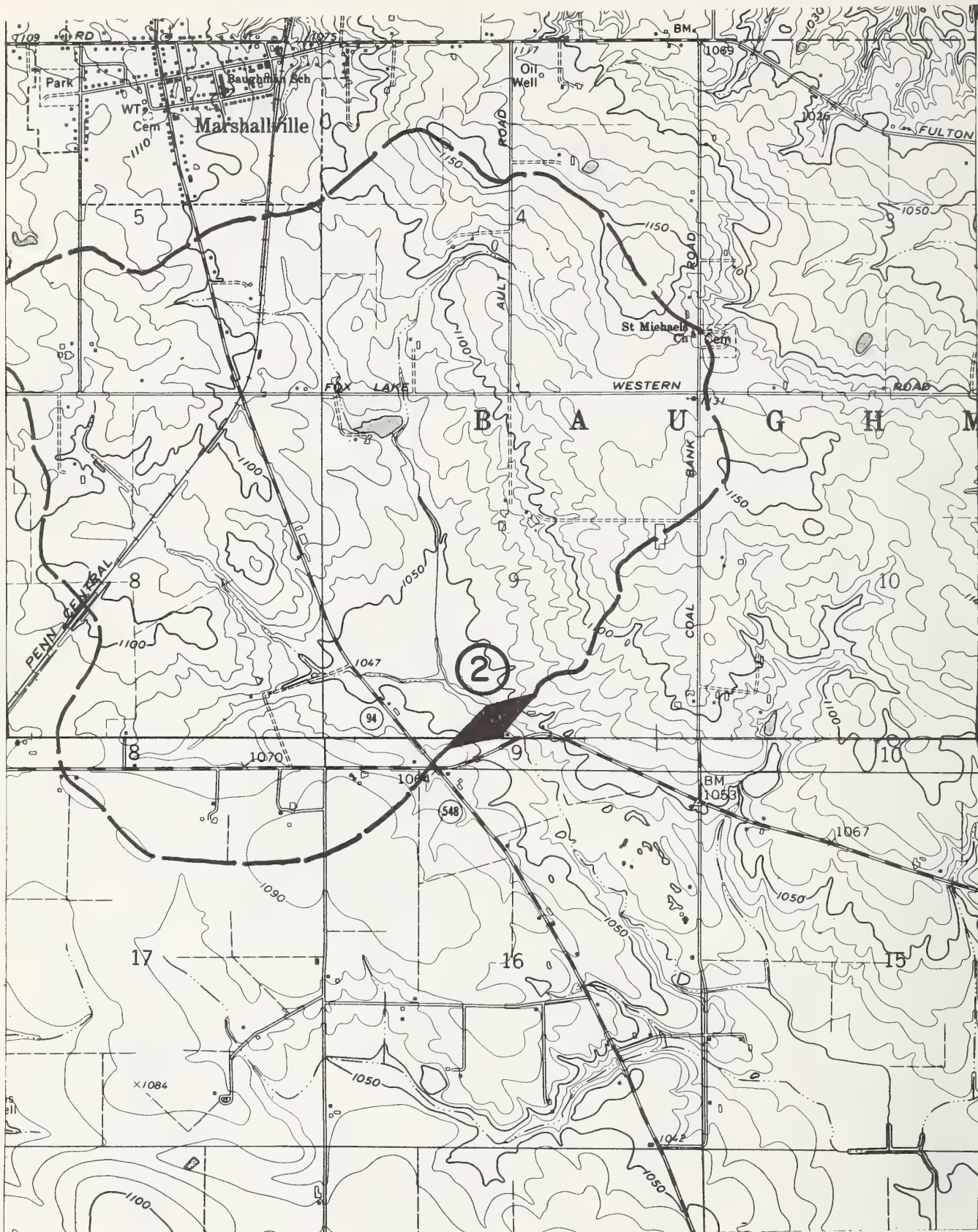
FC FLOOD CONTROL LF LOW FLOW AUGMENTATION SD SEDIMENT CONTROL
FW FISH AND WILDLIFE LL LAKE LEVEL REGULATION WQ WATER QUALITY CONTROL
IR IRRIGATION RE RECREATION WS WATER SUPPLY

PRICE BASE YEAR 1970

ALL DATA BASED ON PRELIMINARY
RESERVOIR LOCATIONS.



10

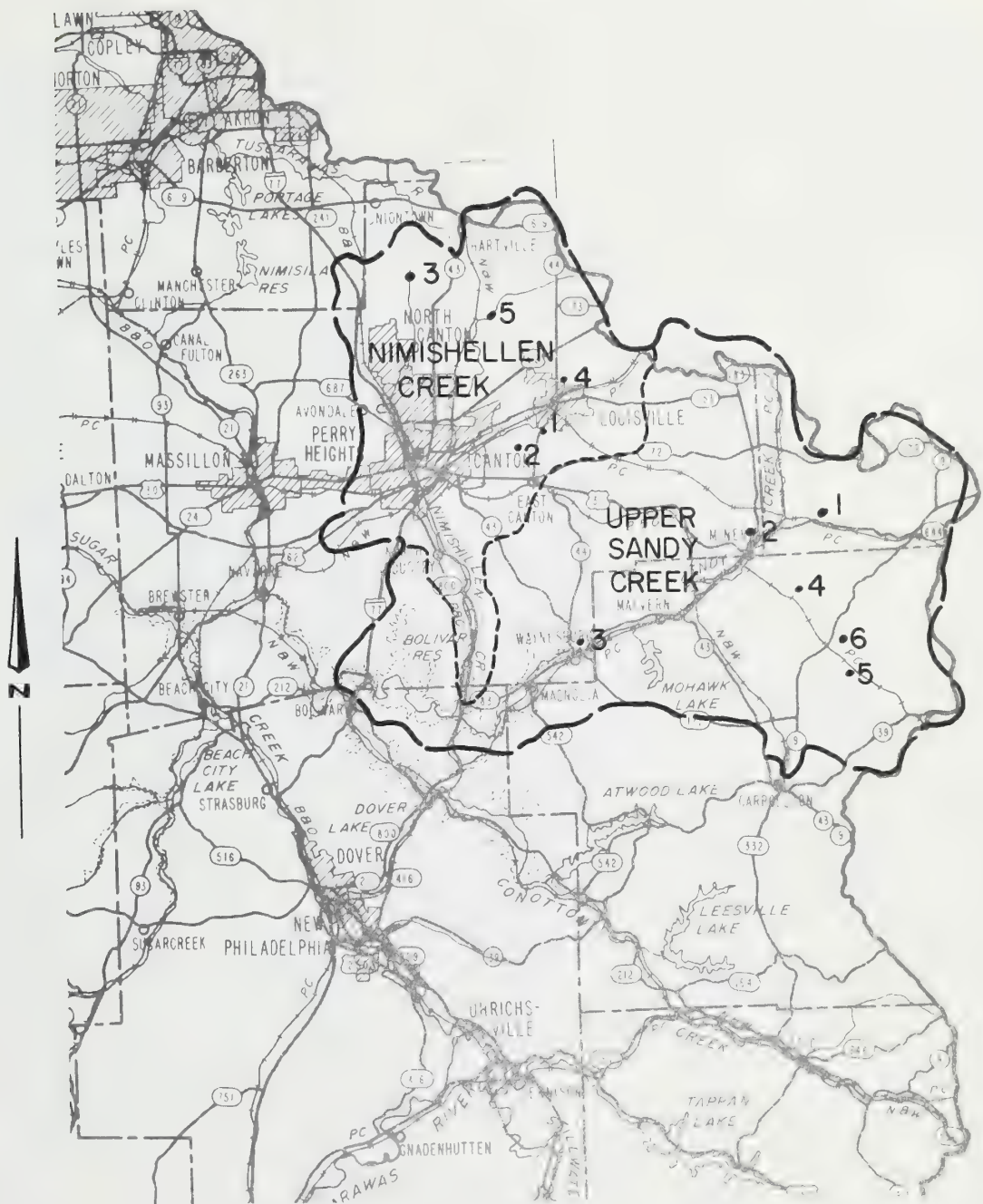


SITE NO. 4A-15 (2)
 SUBWATERSHED UPPER TUSCARAWAS (NEWMAN CR.)
 LOCATION CO. WAYNE TWP. BAUGHMAN
 SEC. 9 SE⁴ OF SW⁴
 QUAD. DOYLESTOWN
 SCALE 1:24000 C.I. 10 ft.



SITE NO. 4A-13 (1)
 SUBWATERSHED UPPER TUSCARAWAS (PIGEON RUN)
 LOCATION CO. STARK TWP. TUSCARAWAS
 SEC. 22 SW⁴ OF SE⁴
 QUAD. MASSILLON
 SCALE 1:24000 C.I. 10 ft.

**SANDY CREEK
SUB BASIN**



MUSKINGUM RIVER BASIN

SANDY CREEK SUB BASIN

STATE: OHIO

STARK, SUMMIT, COLUMBIANA, CARROLL COUNTIES

SCALE 1/417,000

NIMISHILLEN WSHD

POTENTIAL USE ABBREVIATIONS			
FC	FLOOD CONTROL	LF	LOW FLOW AUGMENTATION
FW	FISH AND WILDLIFE	LL	LAKE LEVEL REGULATION
IK	IRRIGATION	RE	RECREATION
		SD	SEDIMENT CONTROL
		WQ	WATER QUALITY CONTROL
		WS	WATER SUPPLY

ALL DATA BASED ON PRELIMINARY RESERVOIR LOCATIONS.			

PRICE BASE YEAR 1970			

POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 1

OHIO MUSKINGUM RIVER BASIN

SANDY SUBBASIN

SANDY CR. WSHD.

ELEVATION (FT MSL)	HGT * DAM *	STORAGE (AC-FT)	SURFACE * AREA *	FILL * (1000) *	INSTALLATION COST	UNIT COST	GROSS YIELD
(FT)			(AC)	(YDS)	(\$1000)	(\$)	(MGD)
NORM EMERG DSGN TOP * MAX	BEN NORM TEMP	TOTAL	* NORM DSGN	VOL	* CONST ENGR L/R PROJ TOTAL	AC-FT	AC-FT
POOL SPHY HIGH OF	* HGT * USE	POOL FLOOD E.S.	* POOL HIGH		ADM	STORE BEN	FOR
CREST WATER DAM		CREST	WTR			* ALLOC	* P.C.

SITE CONSER RUN (1) C DA= 15.20 SQ.MI. ELEV. BOTTOM C/L PROFILE= 1084.0 POTENTIAL USES-FC RE

11091.1	1103.1	1107	1112	28	340	1914	2320	88	271	132	315	21	245	74	655	282	
1107.8	1117	1123	39	3200	3540	1922	5528	284	468	272	572	34	455	103	1164	211	2377
1116.6	1120.6	1124	1131	47	6442	6783	1944	8792	460	636	405	778	47	663	140	1628	185
1122.8	1125.9	1129	1138	54	9685	10025	1952	12042	604	766	528	966	58	846	174	2043	170
1131.6	1134.1	1137	1145	61	16170	16510	2135	18710	841	1023	680	1191	71	1033	214	2510	134

SITE HUGLE RUN (2) B DA= 9.10 SQ.MI. ELEV. BOTTOM C/L PROFILE= 1102.0 POTENTIAL USES-FC RE

1107.8	1116.1	1119	1126	24	252	1116	1461	82	251	81	198	16	198	58	469	321	
1120.6	1124.6	1127	1132	30	2300	2552	1116	3761	276	396	131	312	21	342	74	748	199
1126.5	1129.4	1131	1136	34	4241	4493	1116	5702	396	483	171	382	25	437	78	923	162
1130.9	1133.4	1135	1139	37	6182	6435	1180	7707	483	546	211	443	27	513	83	1066	138
1136.1	1140.6	1141	1146	44	10065	10317	1467	11876	600	654	294	568	34	614	102	1318	111

SITE LITTLE SANDY (3) C DA= 36.20 SQ.MI. ELEV. BOTTOM C/L PROFILE= 969.0 POTENTIAL USES-FC RE

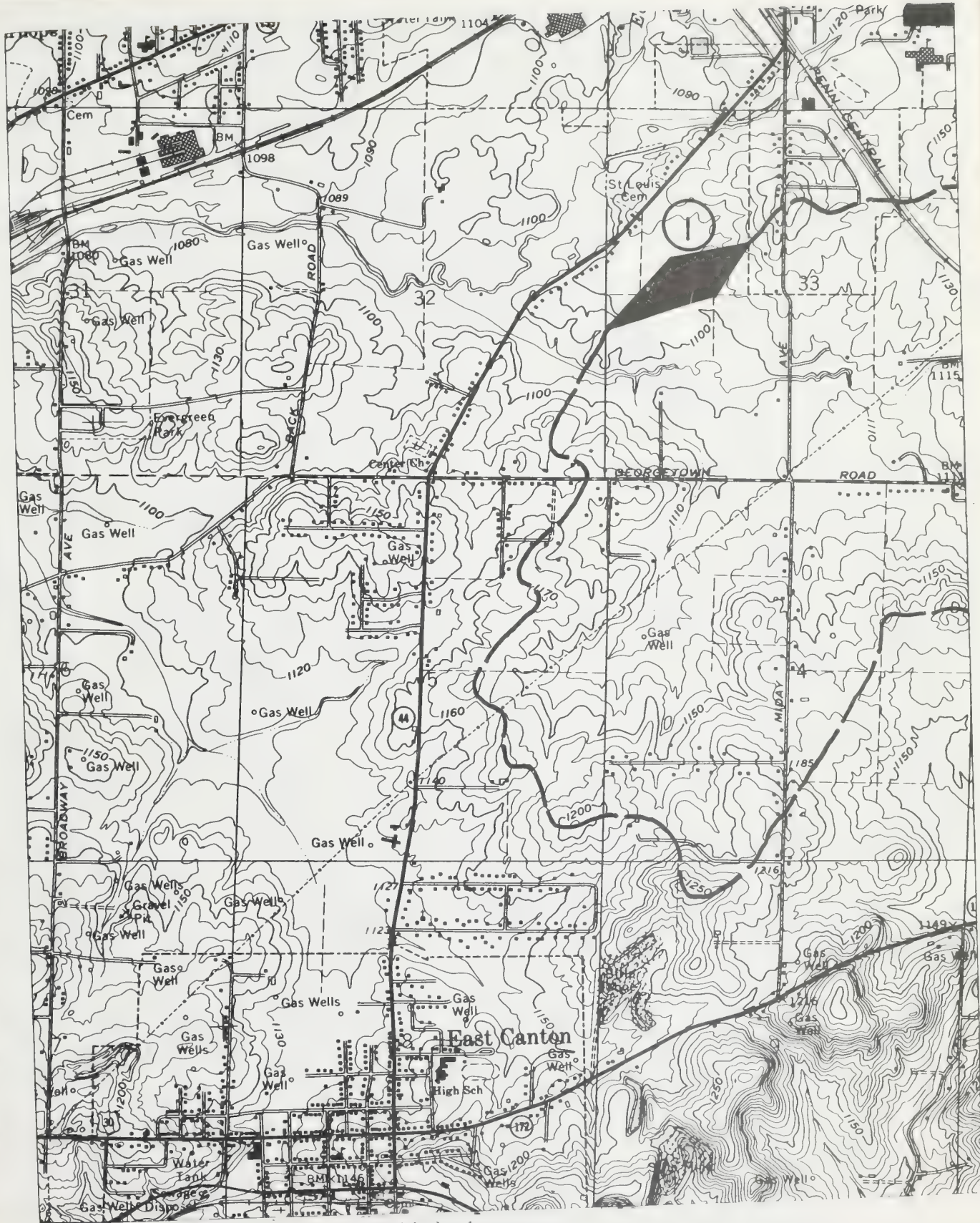
983.5	1004.0	1008	1014	45	907	6975	8036	147	744	237	484	29	565	88	1168	145	
1007.6	1012.9	1016	1022	53	8900	9807	4834	14796	719	1095	424	862	52	1101	155	2170	147
1015.5	1020.0	1024	1030	61	16622	17530	4866	22550	1063	1433	722	1372	82	1696	247	3397	151
1022.0	1025.5	1029	1036	67	24344	25252	4867	30273	1347	1738	1037	1899	114	2130	342	4485	148
1027.1	1030.1	1033	1040	71	32067	32974	4866	37995	1636	1972	1252	2284	137	2254	411	5096	134

SITE MUDDY FORK (4) B DA= 14.70 SQ.MI. ELEV. BOTTOM C/L PROFILE= 1038.0 POTENTIAL USES-FC RE

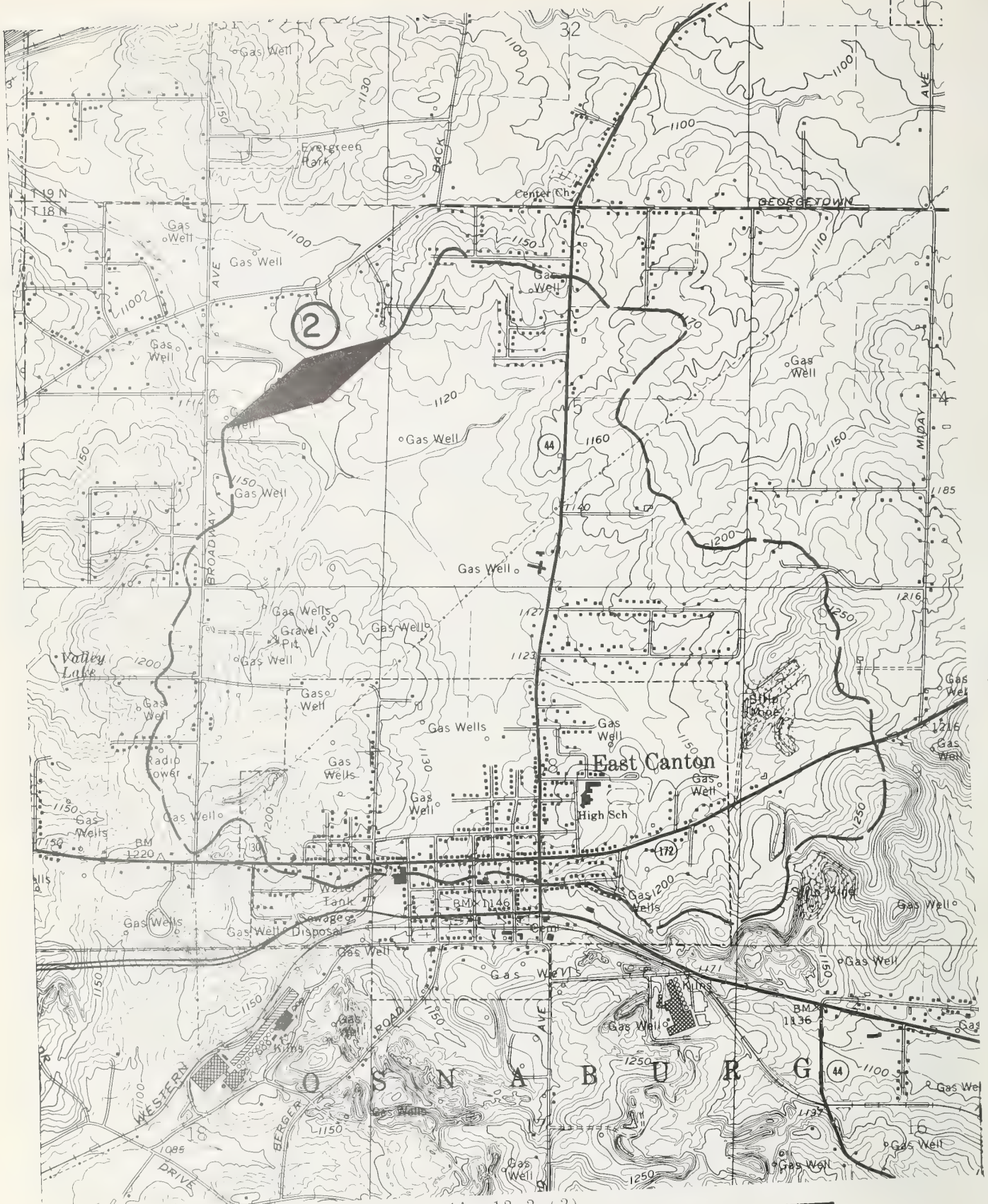
1044.5	1053.1	1057	1064	26	337	1578	1970	107	335	83	200	16	186	58	460	234	
1046.9	1054.4	1058	1065	27	310	647	1578	2280	152	352	89	215	17	208	61	502	220
1058.8	1062.5	1065	1071	33	3446	3783	1578	5415	374	544	135	326	22	385	75	808	149
1070.5	1073.0	1074	1079	41	9717	10054	1818	11926	712	922	224	487	29	784	88	1389	116
1074.6	1077.1	1078	1082	44	12853	13190	2120	15365	835	930	267	546	33	1207	98	1884	123

ALL DATA BASED ON PRELIMINARY RESERVOIR LOCATIONS.

FC	FLOOD CONTROL	LF	LOW FLOW AUGMENTATION	SO	SEDIMENT CONTROL
FW	FISH AND WILDLIFE	LL	LAKE LEVEL REGULATION	WQ	WATER QUALITY CONTROL
IR	IRRIGATION	RE	RECREATION	WS	WATER SUPPLY
					PRICE
					E YEAR 1970



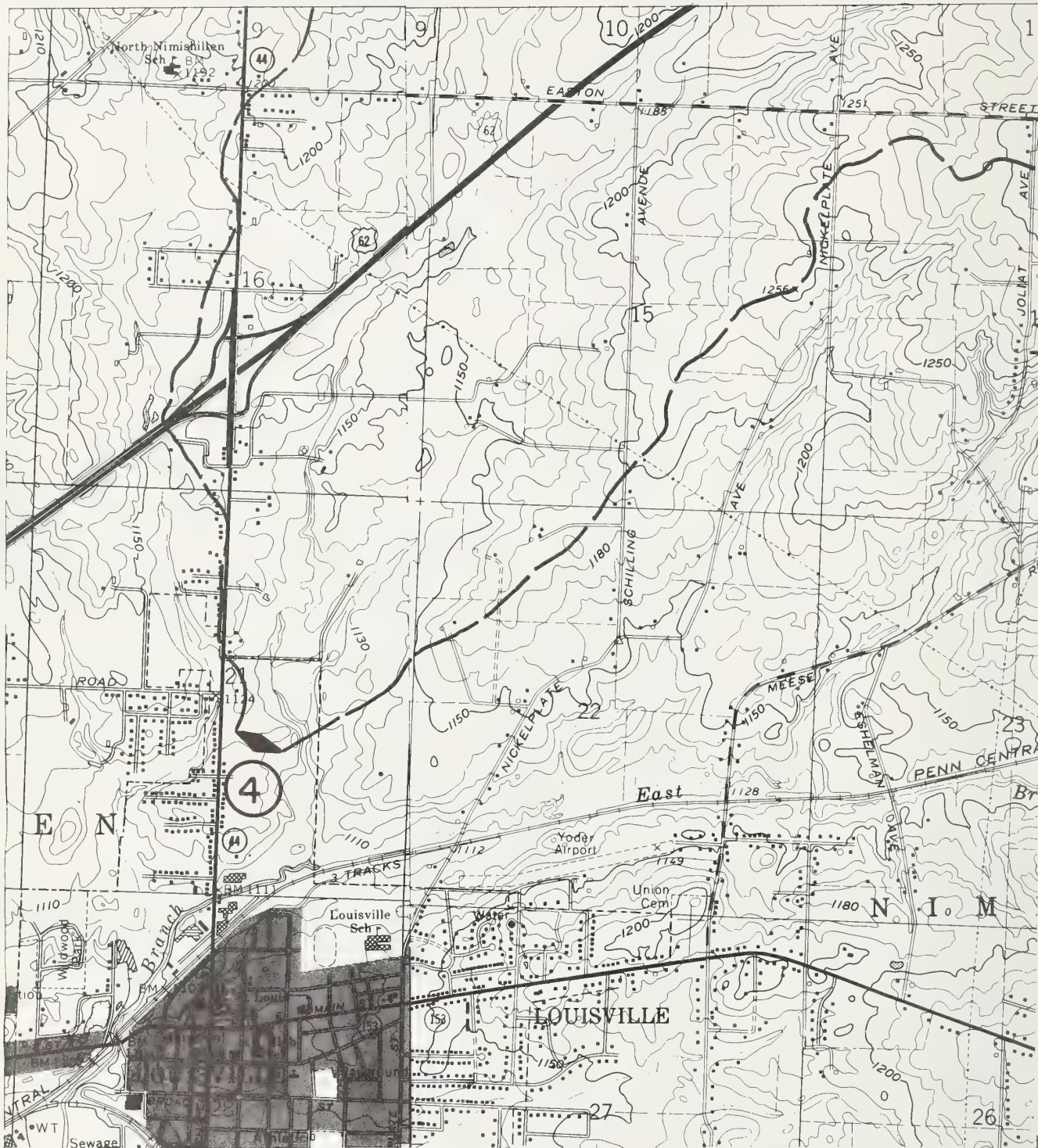
SITE NO. 4A-12 2 (1)
 SUBWATERSHED NIMISHELLEN CREEK
 LOCATION CO. STARK TWP. NIMISHELLEN
 SEC. 32 NE 1/4 OF SE 1 4
 QUAD. CANTON EAST
 SCALE 1:24000 C.I. 10 FT. ft



SITE NO. 4A-12.2 (2)
 SUBWATERSHED NIMISHELLEN CREEK
 LOCATION CO. STARK TWP. OSNABURG
 SEC. 6 NE 1/4 OF SE 1/4
 QUAD. CANTON EAST
 SCALE 1:24000 C.I. 10 FT. ft.



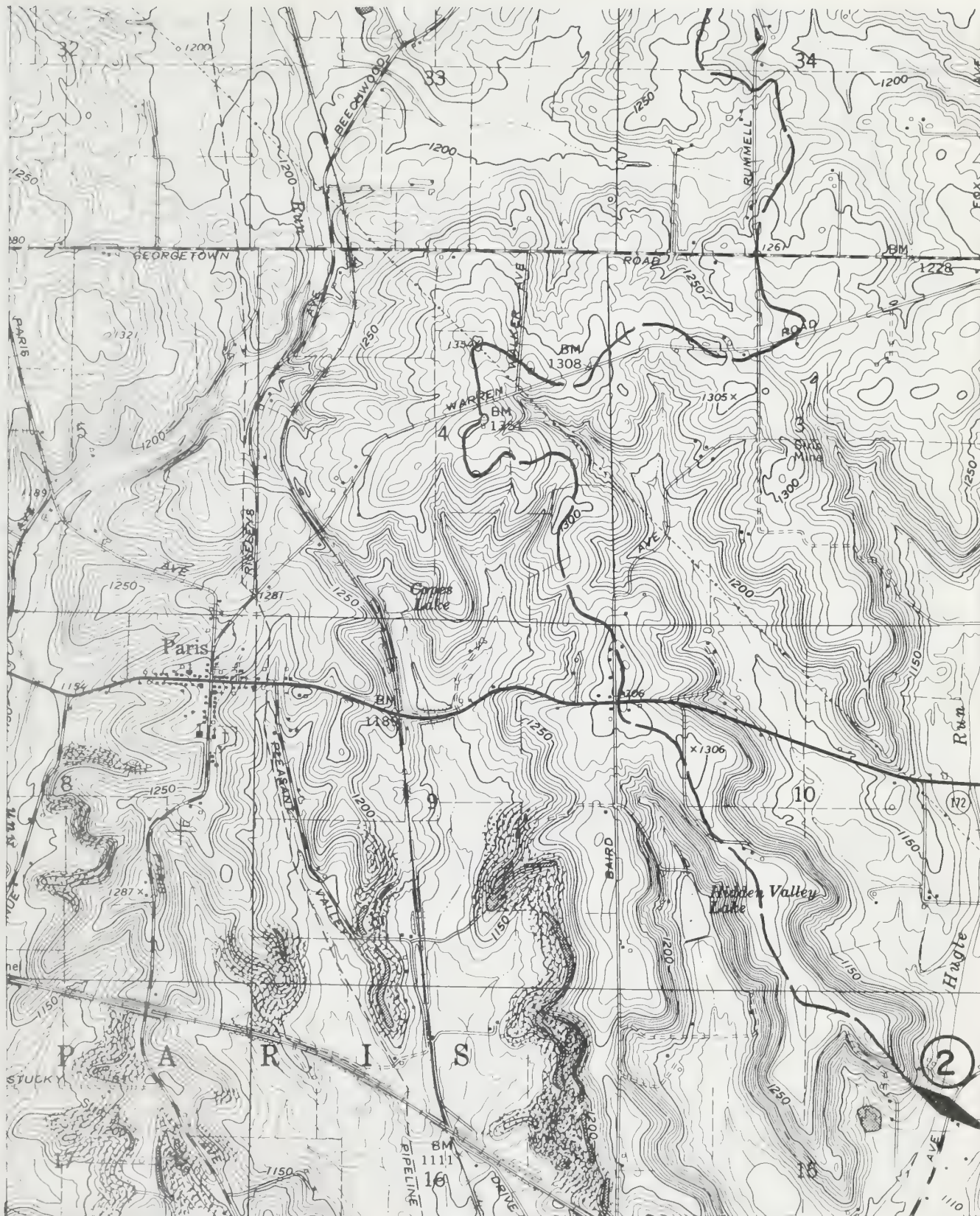
SITE NO. 4A-12 2 (3)
 SUBWATERSHED NIMISHELLEN CREEK
 LOCATION CO. STARK TWP. LAKE
 SEC. NORTH CANTON
 QUAD. 29 NE 1 4 OF SE 1 4
 SCALE 1: 24000 C. I. 10 FT. ft.



SITE NO. 4A- 12.2 (4)
 SUBWATERSHED NIMISHELLEN CREEK
 LOCATION CO. STARK TWP. NIMISHELLEN
 SEC. 21 SW 1/4 OF NE 1/4
 QUAD. CANTON EAST
 SCALE 1:24000 C.I. 10 FT. ft.



SITE NO. 4A-12.3 (1)
 SUBWATERSHED UPPER SANDY CREEK
 LOCATION CO. COLUMBIANA TWP. WEST
 SEC. 21 SE 1/4 OF SE 1/4
 QUAD. HOMESWORTH
 SCALE 1:24000 C.I. 10 FT. ft.



SITE NO. 4A- 12 3 (2)

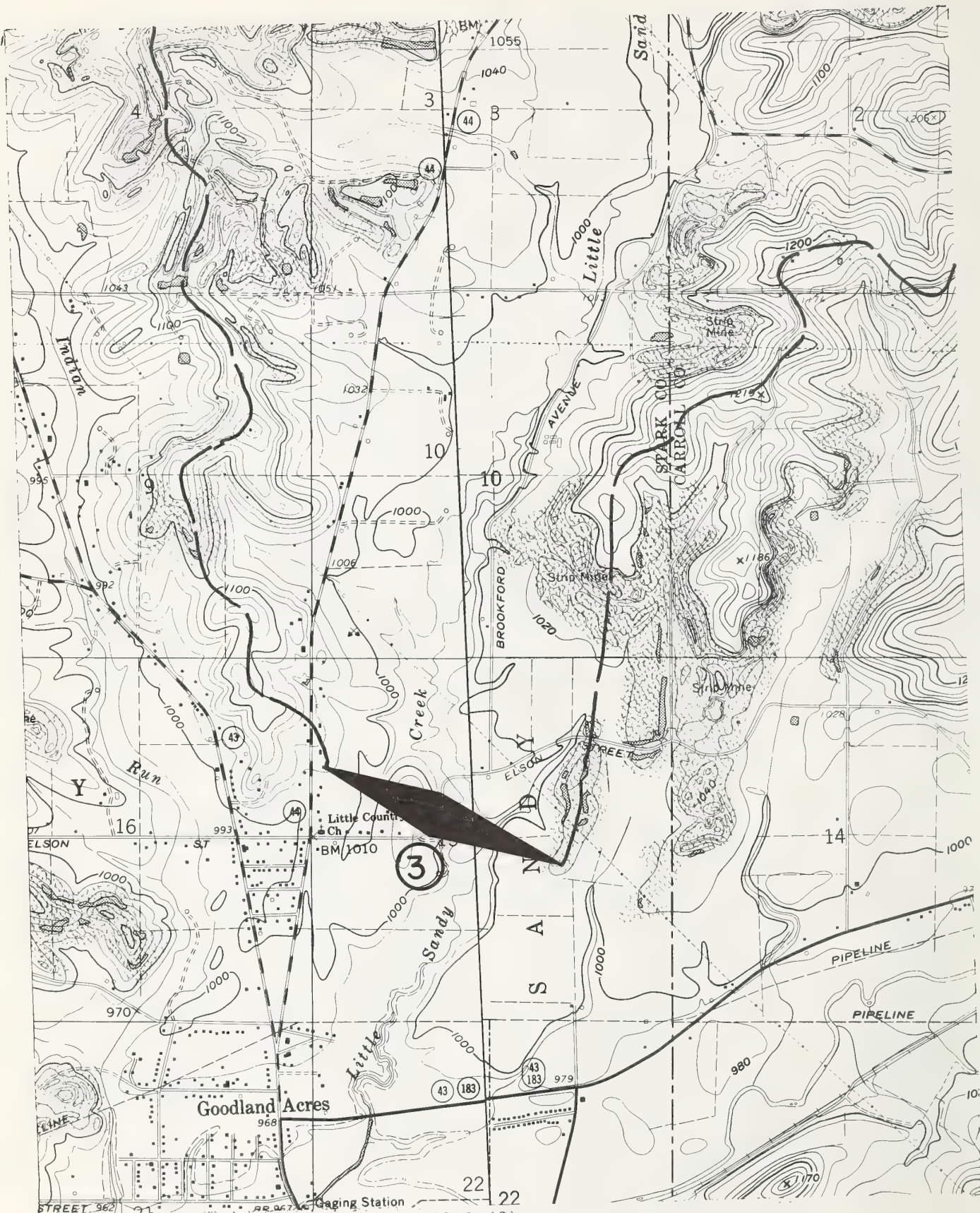
SUBWATERSHED UPPER SANDY CREEK

LOCATION CO. STARK TWP. PARIS

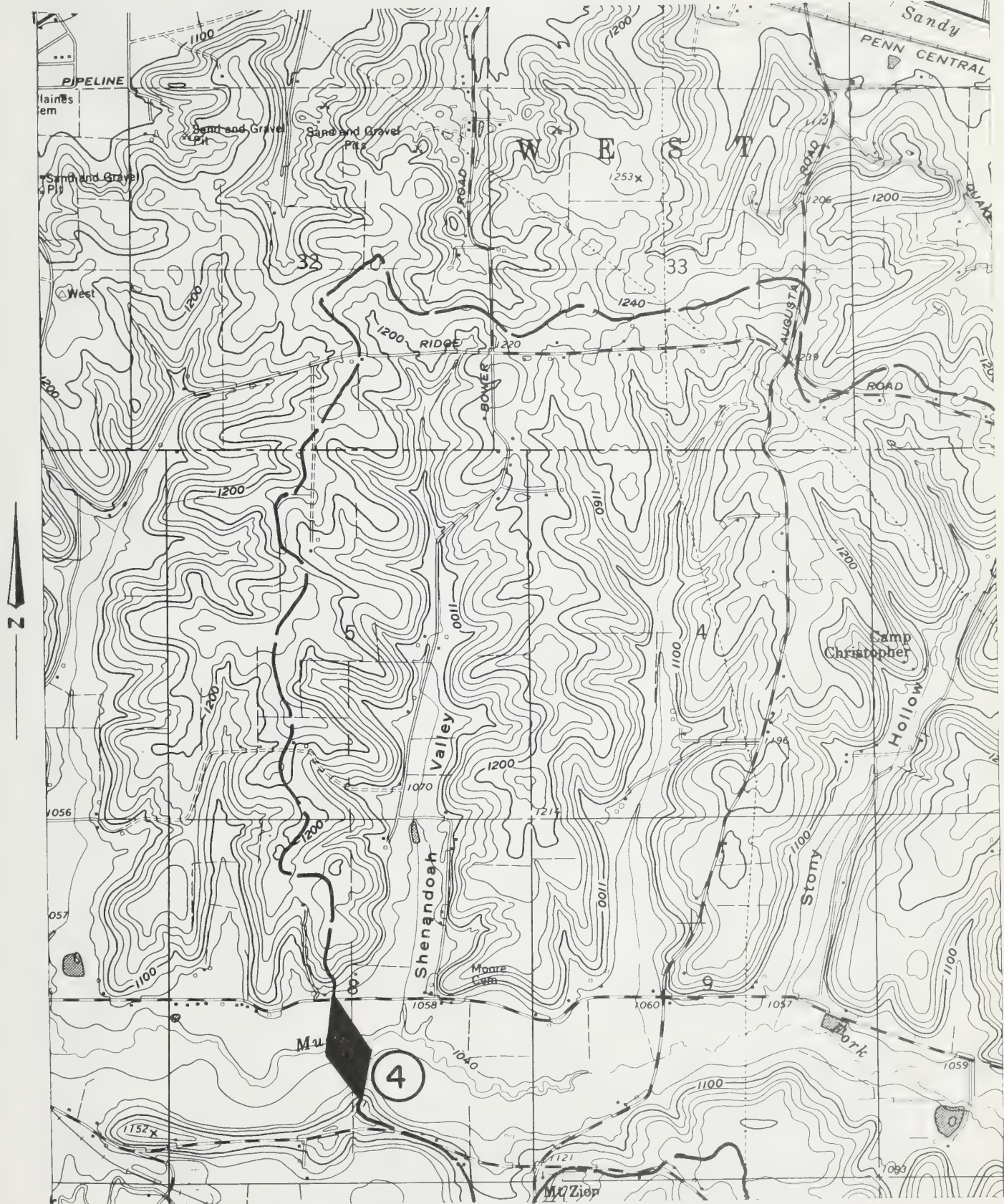
SEC. 15 SE 1/4 OF NE 1/4

QUAD. ROBERTSVILLE

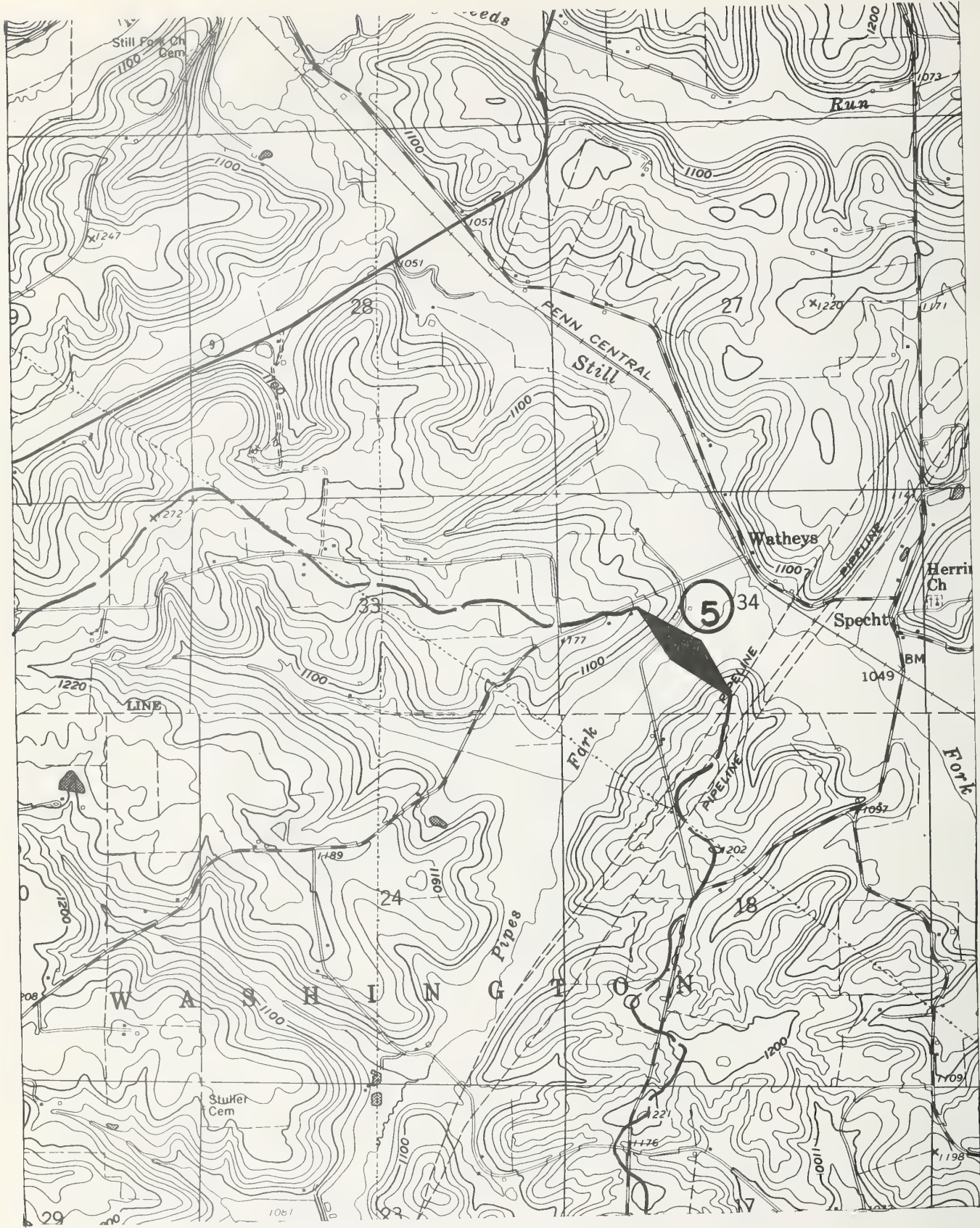
SCALE 1:24000 C. I. 10 FEET ft.



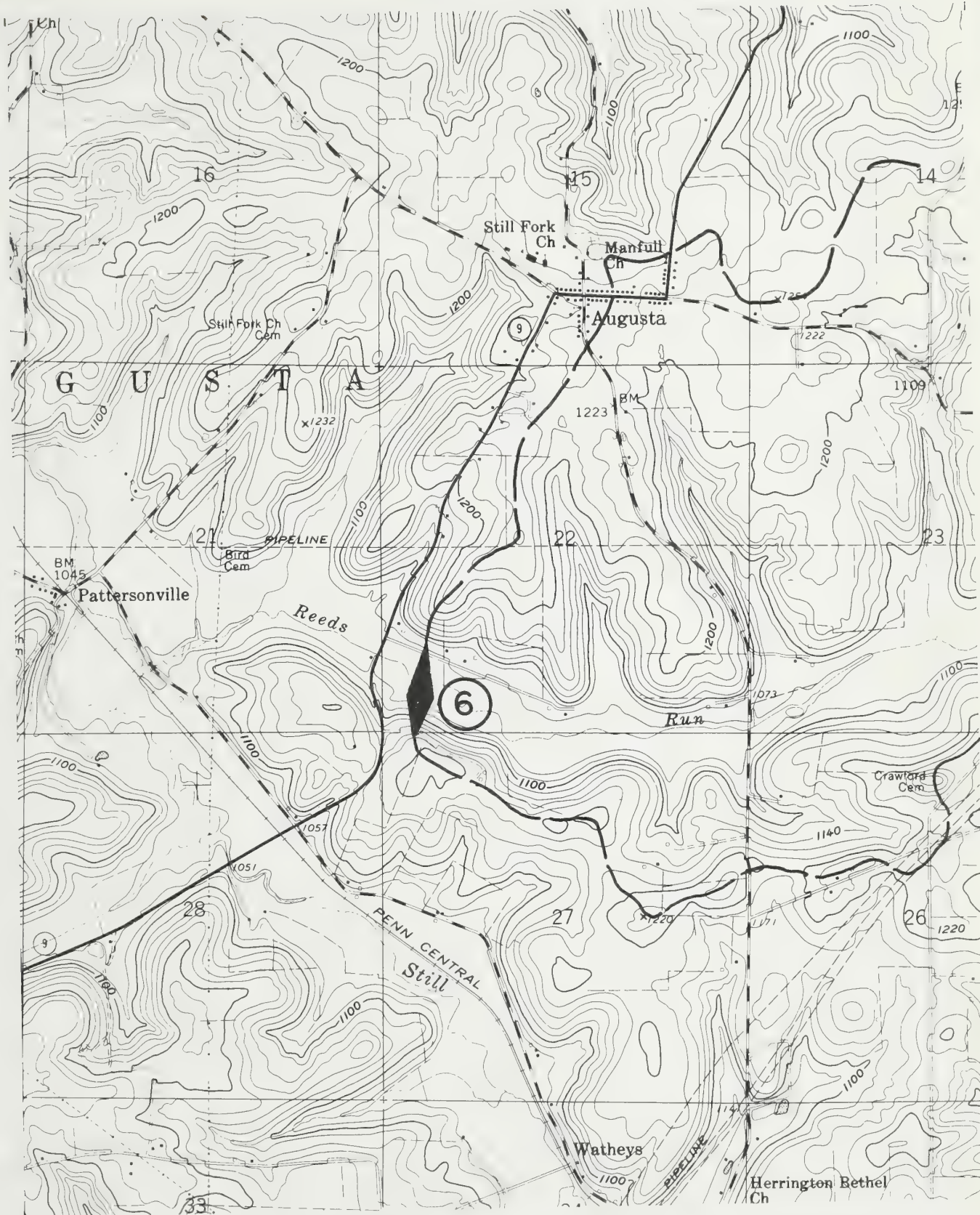
SITE NO. 4A-12.3 (3)
 SUBWATERSHED UPPER SANDY CREEK
 LOCATION CO. STARK TWP. SANDY
 SEC. 15 SE 1/4 OF NW 1/2
 QUAD. WAYNESBURG
 SCALE 1:24000 C.I. 20 FT. ft.



SITE NO. 4A-12.3 (4)
 SUBWATERSHED UPPER SANDY CREEK
 LOCATION CO. CARROLL TWP. AUGUSTA
 SEC. 8 NW 1 4 OF SE 1 4
 QUAD. MINERVA
 SCALE 1:24000 C.I. 20 FT ft.

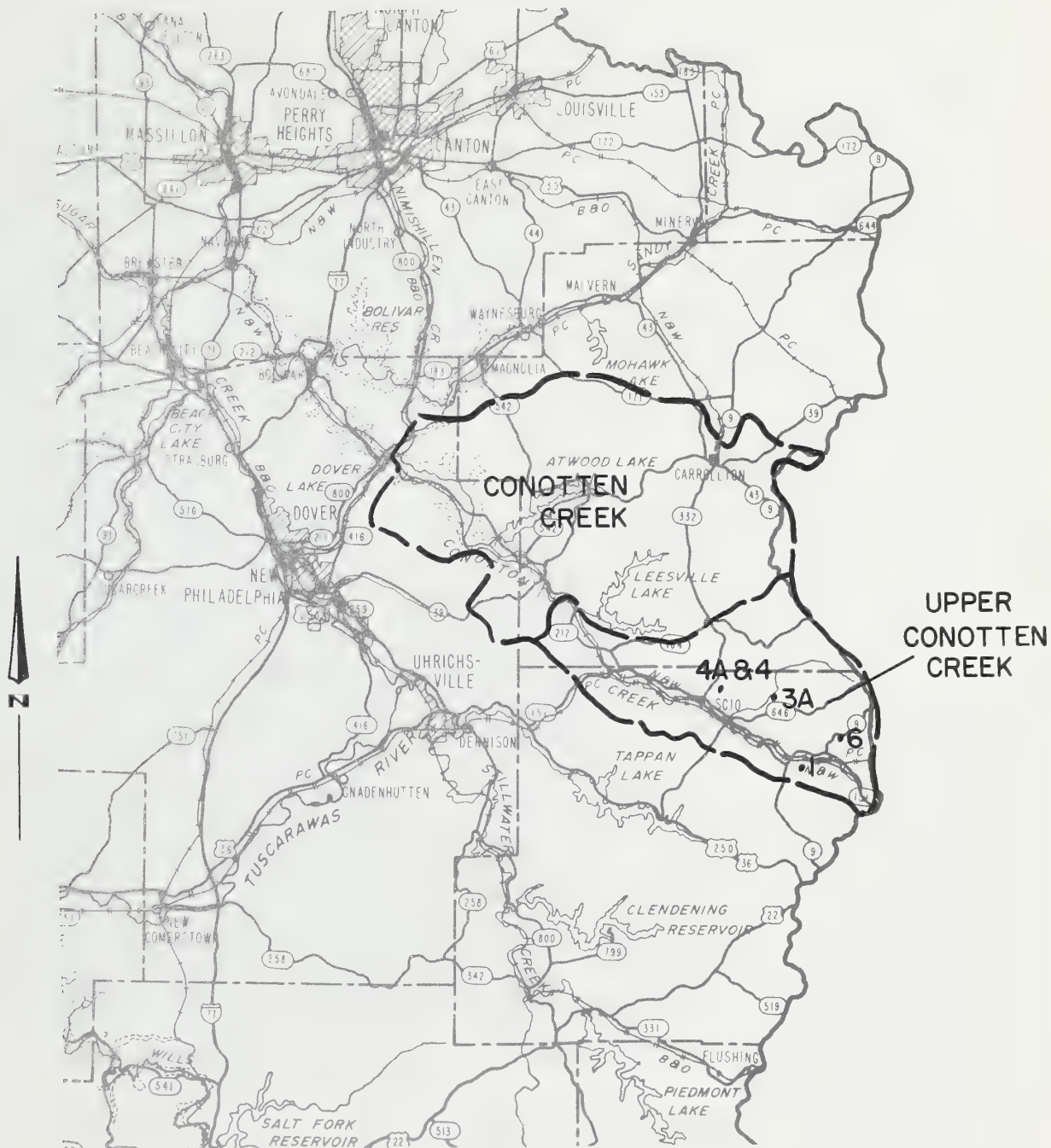


SITE NO. 4A- 12.3 (5)
 SUBWATERSHED UPPER SANDY CREEK
 LOCATION CO. CARROLL TWP. AUGUSTA
 SEC. 34 SE 1/4 OF SW 1/4
 QUAD. MINERVA
 SCALE 1:24000 C.I. 20 FT. ft.



SITE NO. 4A-12 3 .61
 SUBWATERSHED UPPER SANDY CREEK
 LOCATION CO. CARROLL TWP. AUGUSTA
 SEC. 22 SW 1 4 OF SW 1 4
 QUAD. MINERVA
 SCALE 1:24000 C.I. 20 FT. ft.

**CONOTTON CREEK
SUB BASIN**

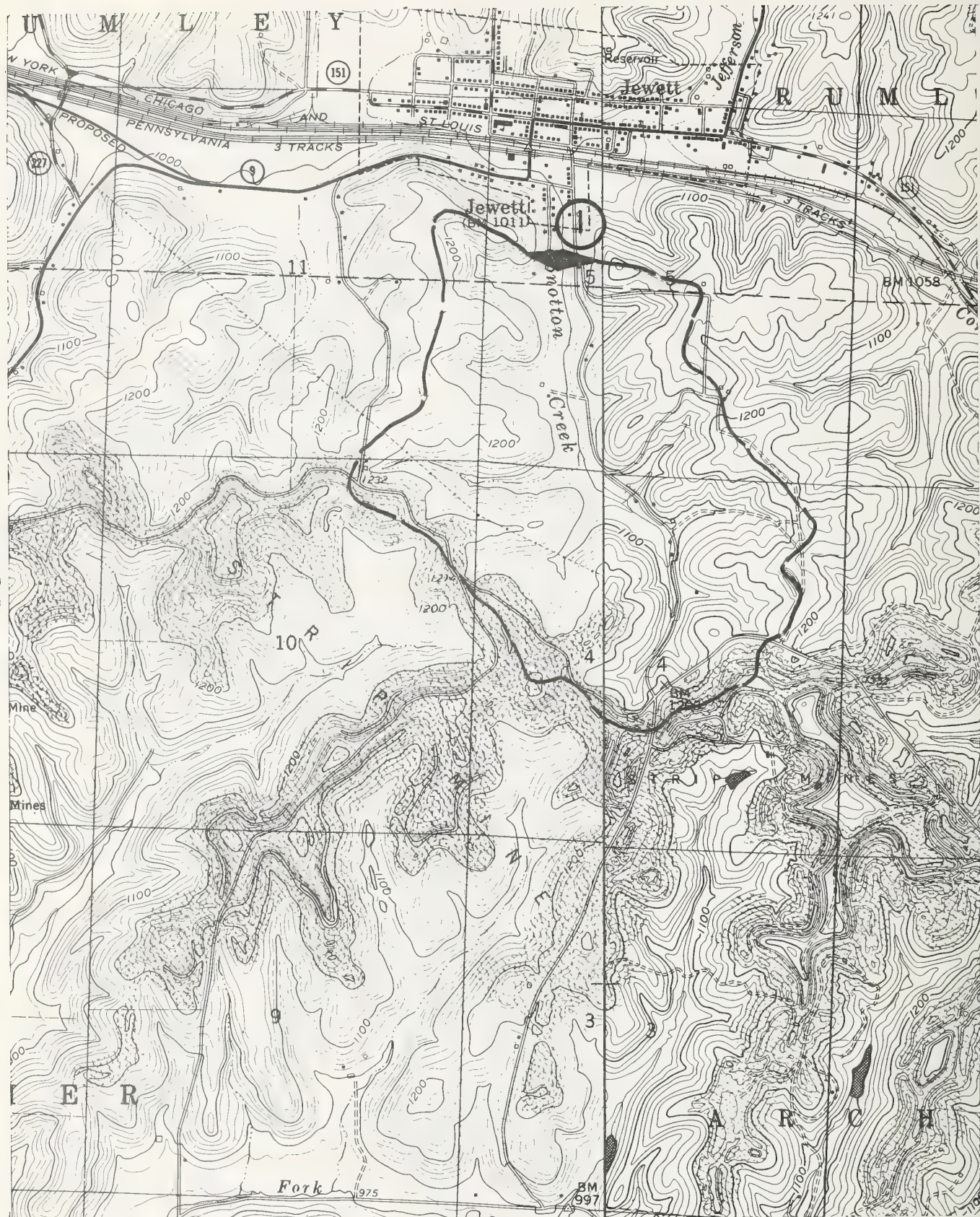


MUSKINGUM RIVER BASIN
CONOTTEN CREEK SUB BASIN
 STATE: OHIO

HARRISON COUNTY
 SCALE 1/417,000

POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 2

OHIO MUSKINGUM RIVER BASIN										CONOTTON SUBBASIN										UPPER CONOTTON WSHD									

SITE NO. 4A - 11.1 (1)SUBWATERS HED. UPPER CONOTTON

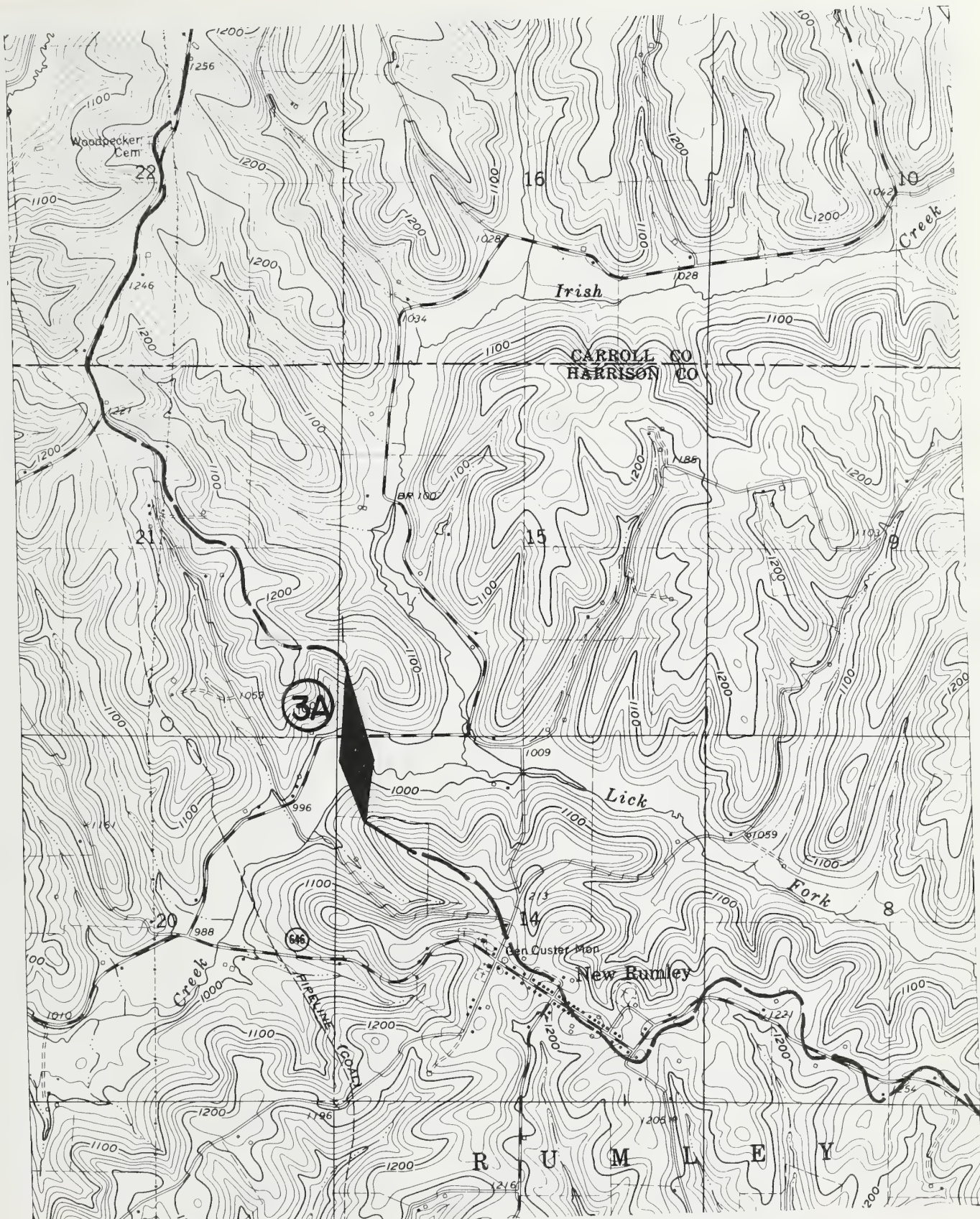
LOCATION CO. HARRISON

TWP. RUMLEY

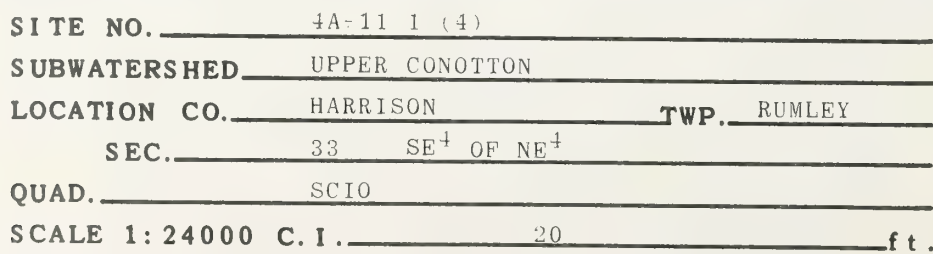
SEC. 5 SE 1/4 OF NW 1/4

QUAD. _____ JEWETT

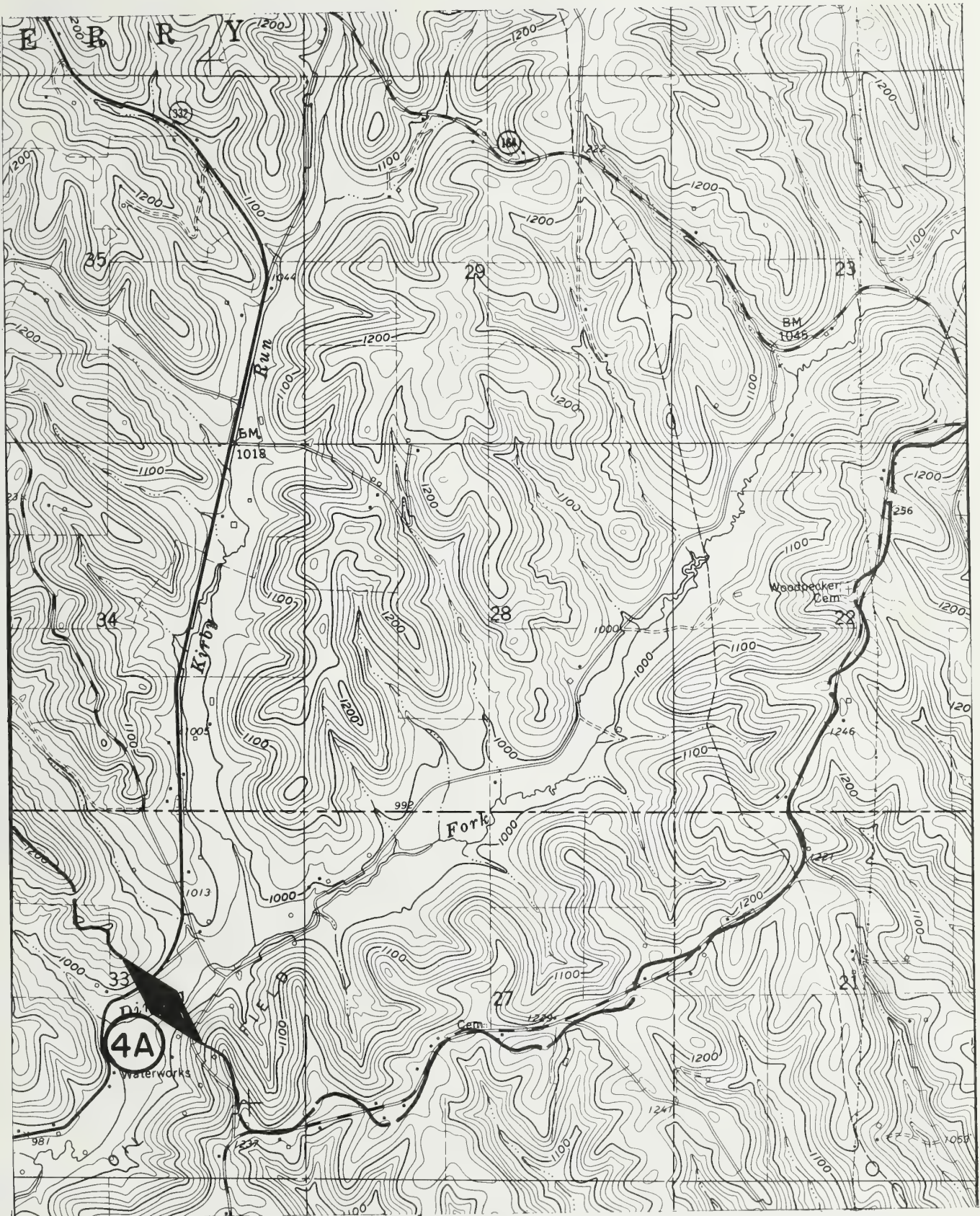
SCALE 1:24000 C.I. 20 FT. f t .



SITE NO. 4A-11.1 (3A)
SUBWATERSHED UPPER CONOTTON
LOCATION CO. HARRISON TWP. RUMLEY
SEC. 5 SE⁴ OF NW⁴
QUAD. SC10
SCALE 1:24000 C.I. 20 ft.

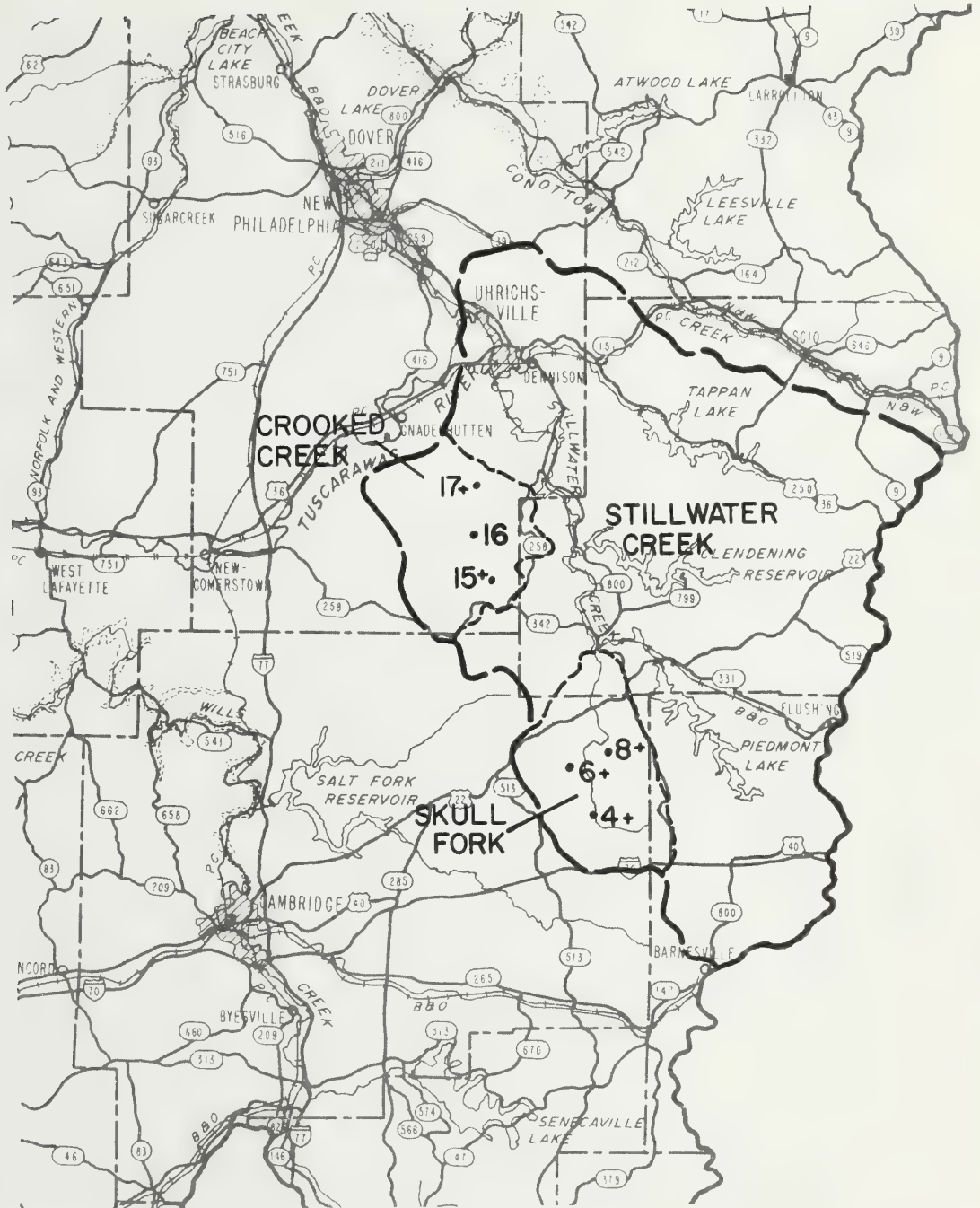


SCALE 1:24000 C.I. 20 ft.



SITE NO. 4A-11.1 (4A)
 SUBWATERSHED UPPER CONOTTON
 LOCATION CO. HARRISON TWP. RUMLEY
 SEC. 33 NW⁴ OF SE⁴
 QUAD. SCIO
 SCALE 1:24000 C.I. 20 ft.

**STILLWATER CREEK
SUB BASIN**



MUSKINGUM RIVER BASIN
STILLWATER SUBBASIN
STATE: OHIO

TUSCARAWAS, GUERNSEY COUNTIES

SCALE 1/417,000

POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 1

OHIO MUSKINGUM RIVER BASIN

STILLWATER SUBBASIN

CROOKED CREEK

ELEVATION (FT MSL)	*HGT *DAM (FT)	*STORAGE (AC-FT)	*SURFACE (AC)	*AREA (1000) YDS)	*FILL (1000) YDS)	*INSTALLATION COST	*UNIT COST	*GROSS YIELD (MGD)
NORM EMERG DSGN	TUP *MAX	BEN	NORM DSGN	VOL	*CONST ENGR	L/R PROJ	TOTAL AC-FT	AC-FT FOR
POOL	SPWY HIGH OF	*USE	POOL FLOOD E-S	*POOL HIGH	ADM		*STORE BEN	BEN # 2
CREST WATER DAM		*CREST	*WIR				*ALLOC	ALLOD STORES P-C

SITE SKULL FORK (4+)

B DA= 13.09 SQ.MI. ELEV. BOTTOM C/L PROFILE= 910.0 POTENTIAL USES-FC RE

921.5	929.3	931	940	30	30	782	1606	2443	138	332	128	279	20	185	70	554	227	*
932.8	937.0	938	946	36	36	2800	3582	1606	5243	361	469	188	385	25	307	78	795	152
939.4	942.5	944	950	40	40	5592	6374	1606	8036	491	571	245	473	29	393	87	982	122
944.5	947.3	948	954	44	44	8385	9167	1606	10828	587	655	301	562	34	454	101	1150	106
953.0	955.5	956	961	51	51	13969	14751	1852	16660	742	797	417	733	44	579	132	1488	89

SITE MILLER FORK (6+)

B DA= 6.25 SQ.MI. ELEV. BOTTOM C/L PROFILE= 888.0 POTENTIAL USES-FC RE

906.8	913.4	916	923	35	35	400	819	1253	90	201	68	171	15	110	51	347	277	*
915.8	919.6	922	927	39	39	1300	1700	824	2558	198	272	98	228	17	191	63	499	195
921.4	924.4	926	931	43	43	2633	3033	829	3895	269	341	127	276	19	247	70	612	157
925.9	928.4	930	934	46	46	3966	4366	862	5262	339	397	155	324	22	290	74	710	135
932.6	935.1	936	940	52	52	6633	7033	1120	8186	444	491	211	416	26	345	81	868	106

SITE YANKEE POINT CEM (8+)

B DA= 7.32 SQ.MI. ELEV. BOTTOM C/L PROFILE= 888.0 POTENTIAL USES-FC RE

900.8	910.0	914	922	34	34	371	899	1290	60	177	112	238	18	95	65	416	322	*
913.6	918.4	921	928	40	40	1500	1871	899	2790	174	243	163	330	22	162	75	589	211
921.1	924.6	927	933	45	45	3064	3435	899	4354	242	304	213	412	26	207	80	725	167
927.0	929.9	932	937	49	49	4627	4999	899	5917	302	354	263	487	29	239	88	844	143
935.9	938.4	940	945	57	57	7754	8126	991	9136	396	437	358	638	38	316	115	1107	121

SITE LAUREL CREEK (15+)

B DA= 12.96 SQ.MI. ELEV. BOTTOM C/L PROFILE= 885.0 POTENTIAL USES-FC RE

899.4	910.5	913	918	33	33	781	1590	2419	108	207	82	197	16	83	58	353	146	*
914.6	921.5	924	932	47	47	2500	3231	1590	4919	218	289	171	350	23	130	76	579	118
925.5	930.5	933	941	56	56	5265	6046	1590	7684	299	359	257	487	29	158	88	763	99
933.8	938.0	940	947	62	62	8029	8810	1590	10448	365	416	328	604	36	186	109	935	90
947.0	950.5	952	959	74	74	13558	14340	1590	15978	470	511	474	826	50	216	149	1241	78

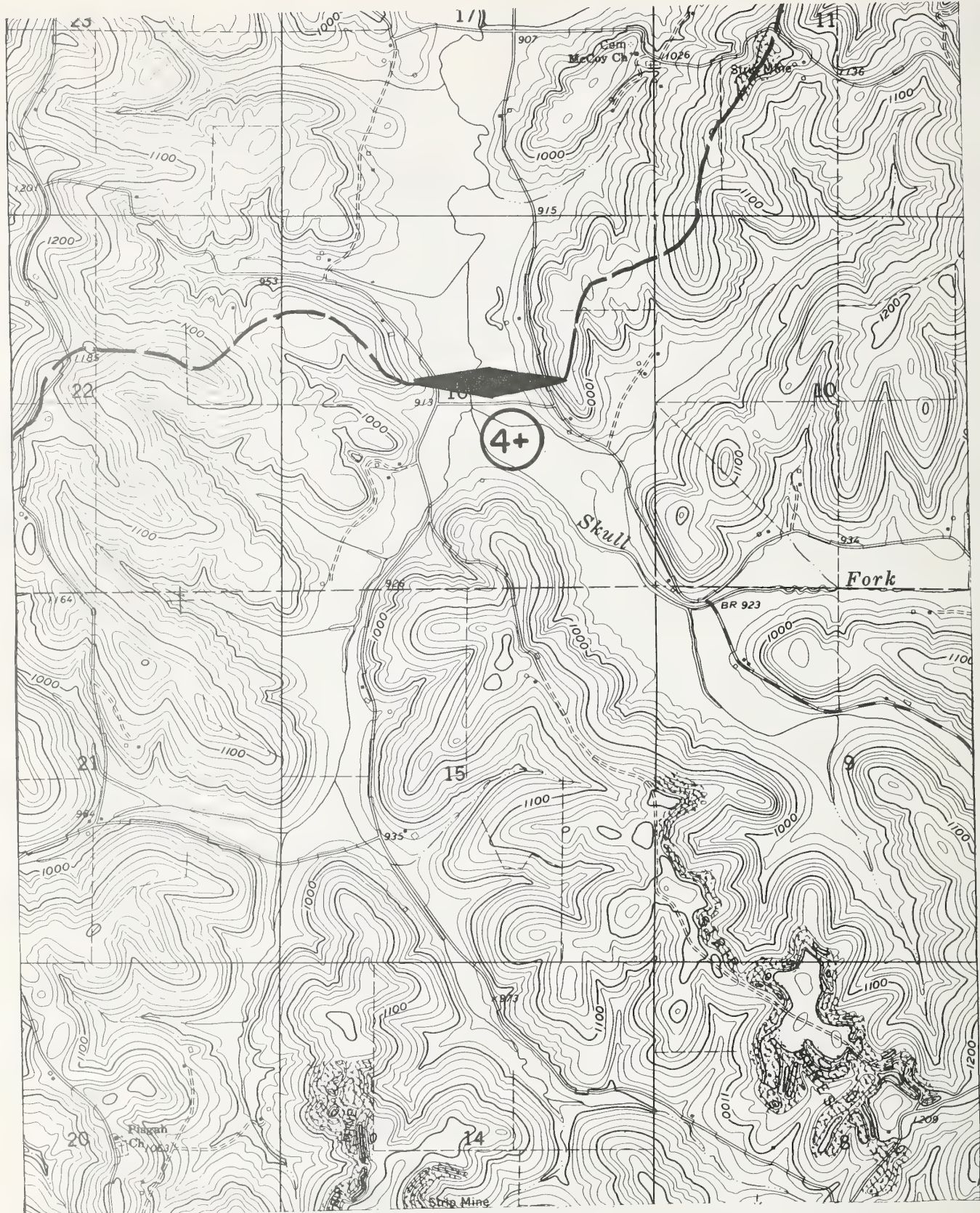
FC FLOOD CONTROL LF LOW FLOW AUGMENTATION SD SEDIMENT CONTROL

Fw FISH AND WILDLIFE LL LAKE LEVEL REGULATION WQ WATER QUALITY CONTROL

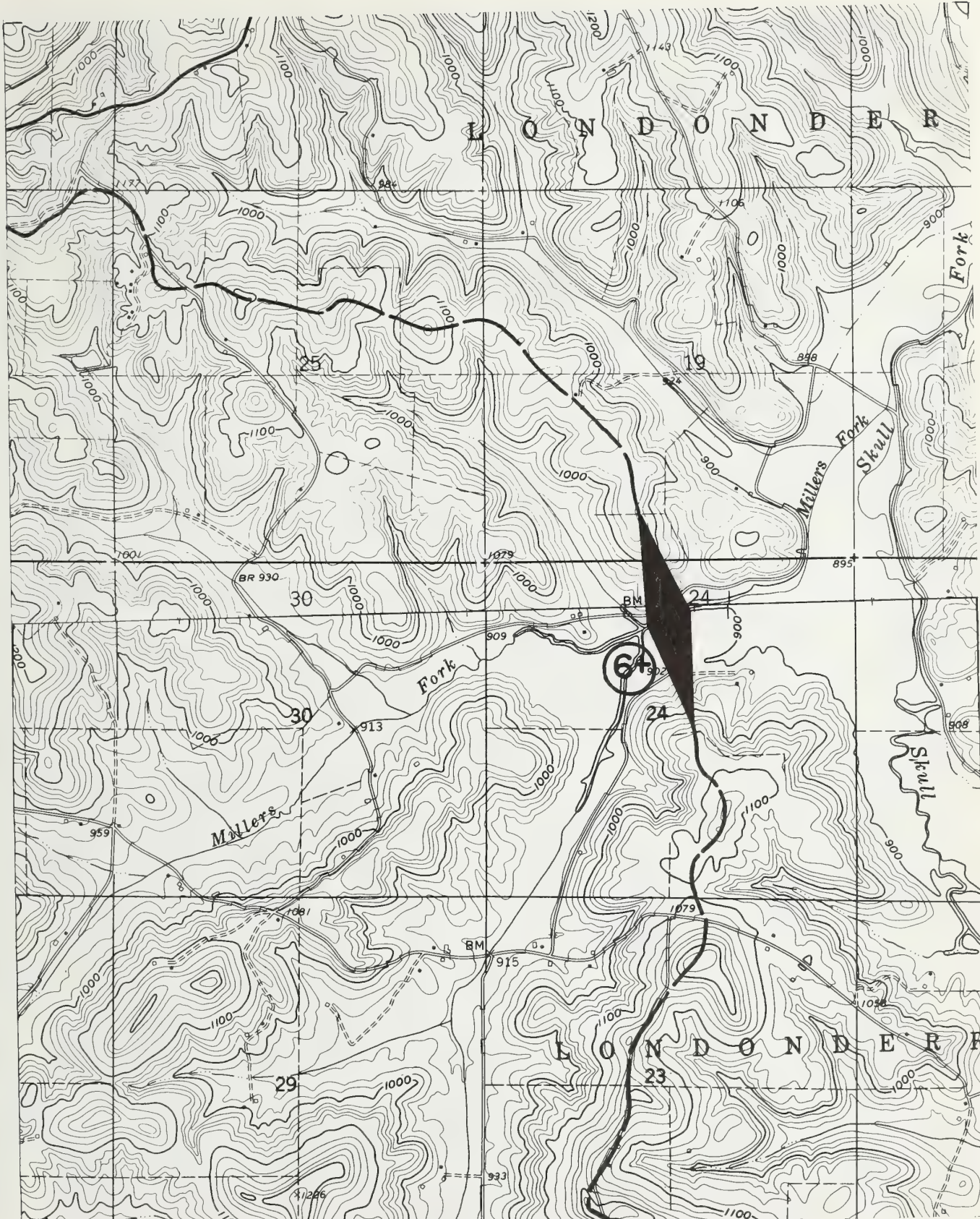
IR IRRIGATION RE RECREATION WS WATER SUPPLY

ALL DATA BASED ON PRELIMINARY RESERVOIR LOCATIONS.

PRICE BASE YEAR 1970



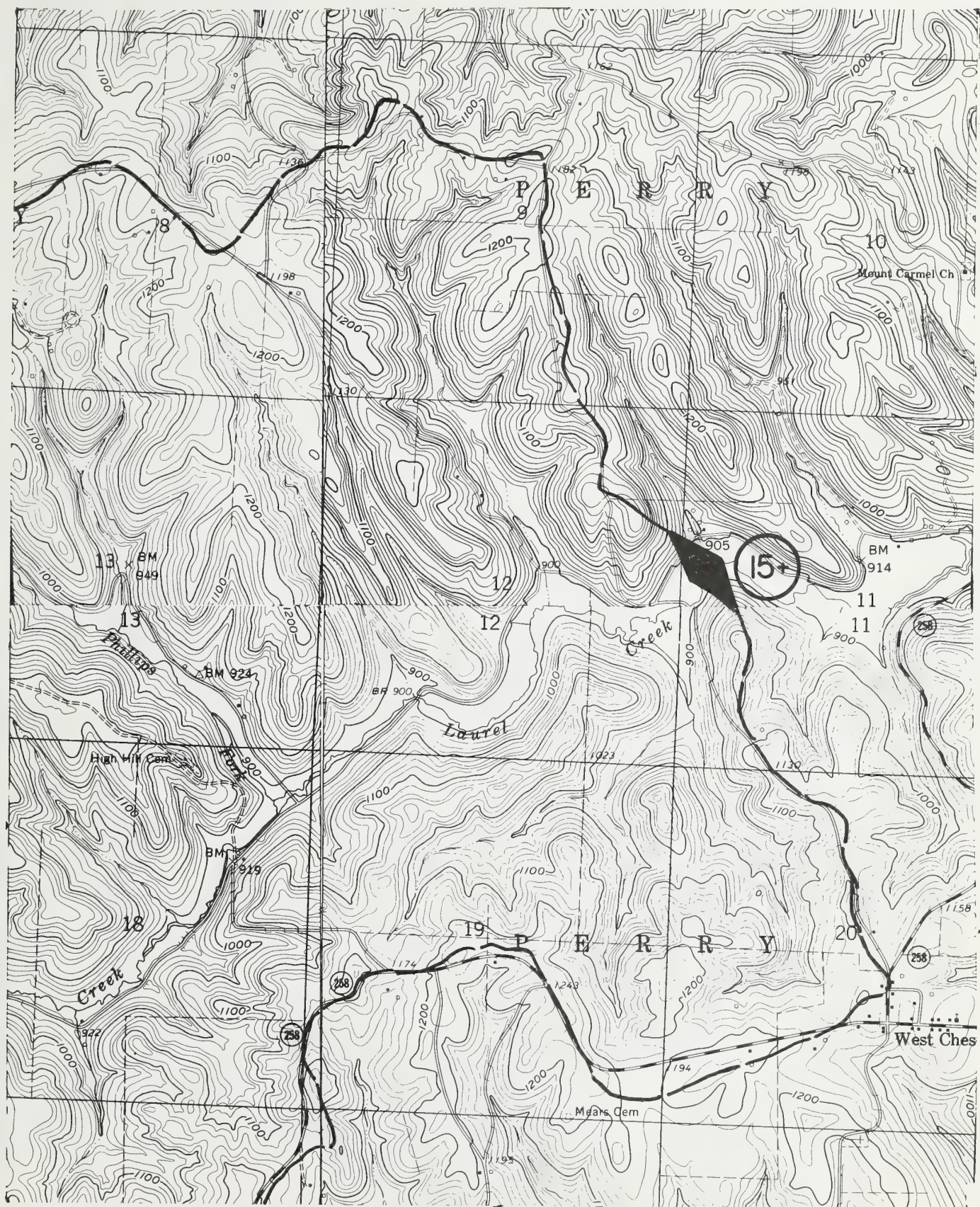
SITE NO. 4A-6 (4⁺)
 SUBWATERSHED STILLWATER (SKULL FORK)
 LOCATION CO. GUERNSEY TWP. LONDONDERRY
 SEC. 16 SW⁴ OF NE⁴
 QUAD. ANTRIM
 SCALE 1: 24000 C. I. 20 ft.



SITE NO. 4A-6 (6+)
SUBWATERSHED STILLWATER (SKULL FORK)
LOCATION CO. GUERNSEY TWP. LONDONDERRY
SEC. 24 NE⁴ OF NW⁴
QUAD. ANTRIM
SCALE 1:24000 C.I. 20 ft.



SITE NO. 4A-6 (8+)
SUBWATERSHED STILLWATER (SKULL FORK)
LOCATION CO. GUERNSEY TWP. LONDONDERRY
SEC. 7 NW 1/4 OF SW 1/4
QUAD. FREEPORT
SCALE 1:24000 C.I. 20 FT. ft.



SITE NO. 4 A - 6 (15 +)

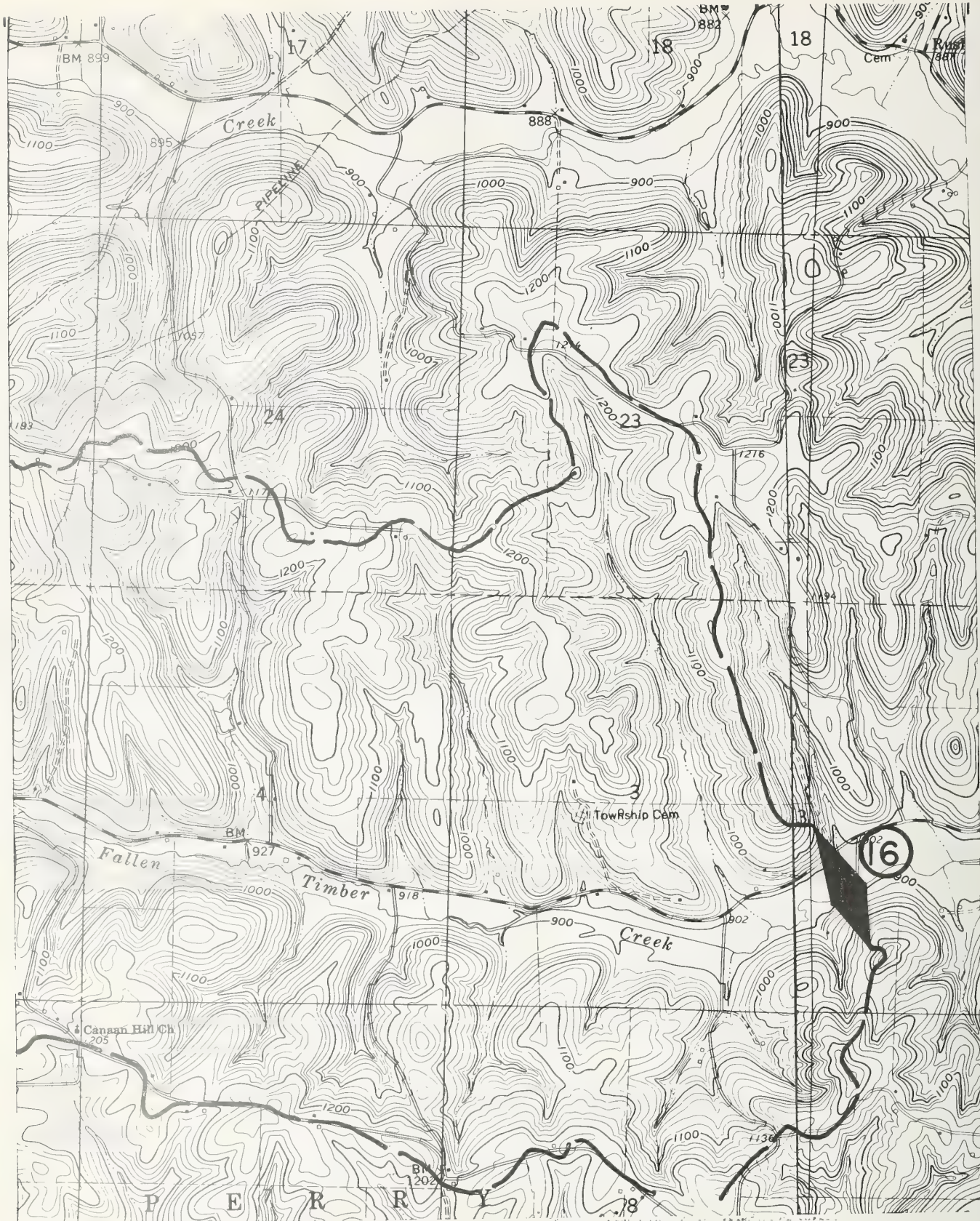
SUBWATERSHED STILLWATER (CROOKED CR)

LOCATION CO. TUSCARAWAS TWP. PERRY

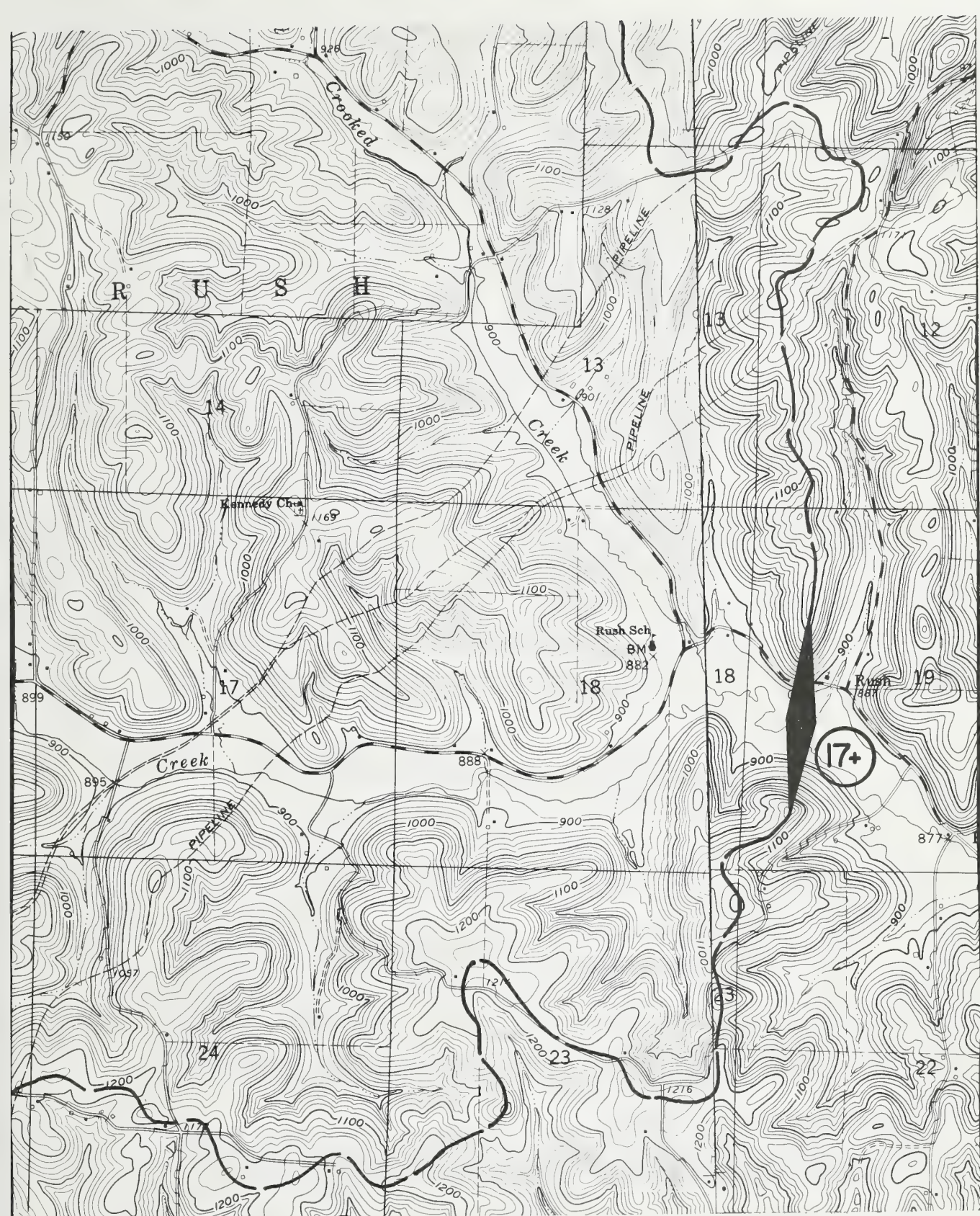
SEC. 11 SW 1/4 OF NW 1/4

QUAD. TIPPECANOE

SCALE 1:24000 C. I. 20 FT. ft.

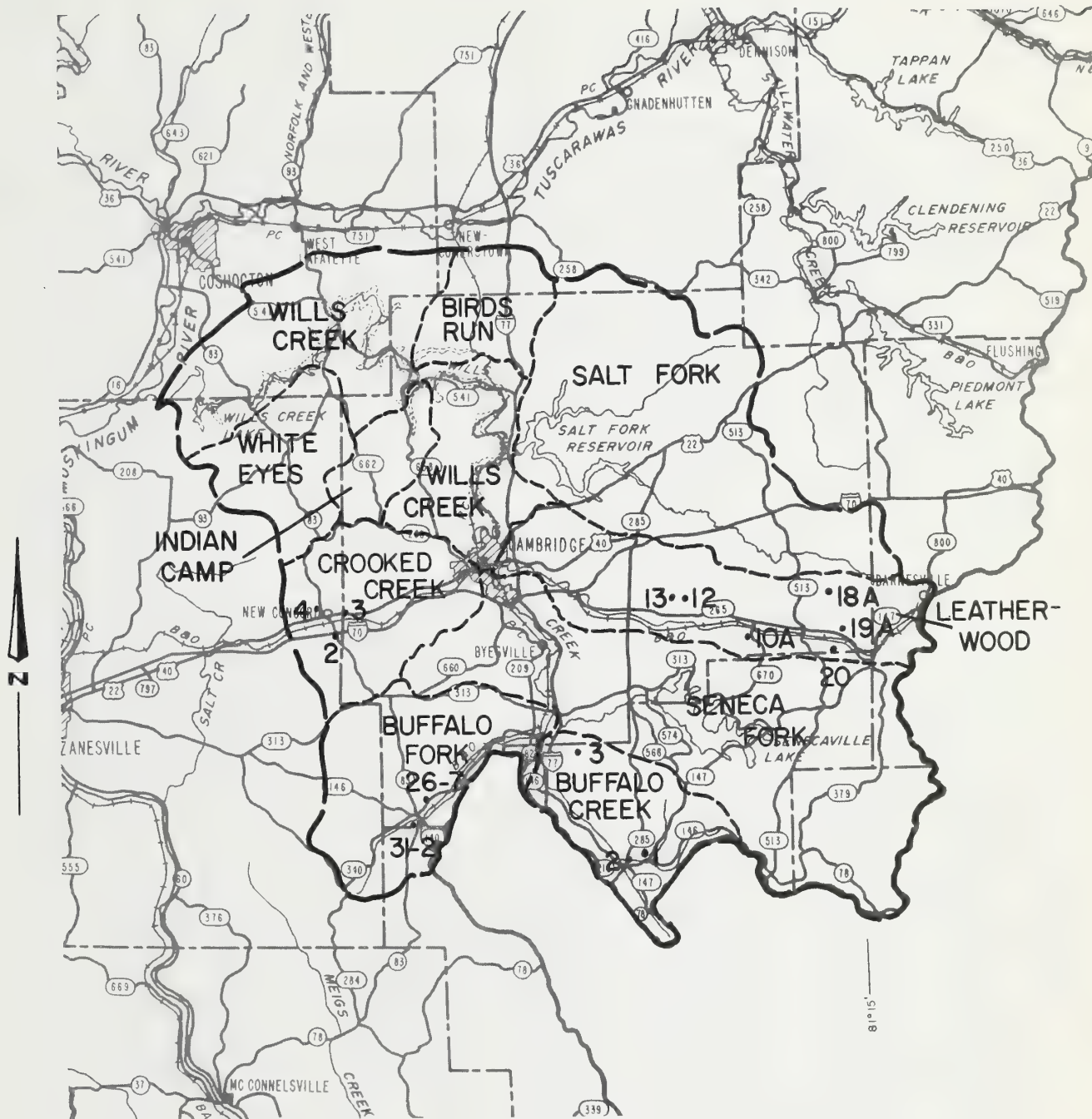


SITE NO. 4A-6 (16)
 SUBWATERSHED STILLWATER (CROOKED CR.)
 LOCATION CO. TUSCARAWAS TWP. PERRY
 SEC. 2 SW 1/4 OF SW 1/4
 QUAD. TIPPECANOE
 SCALE 1:24000 C.I. 20 FT. ft.



SITE NO. 4A-6 (17+)
 SUBWATERSHED STILLWATER (CROOKED CREEK)
 LOCATION CO. TUSCARAWAS TWP. RUSH
 SEC. 19 NE⁴ OF SW⁴
 QUAD. TIPPECANOE
 SCALE 1:24000 C.I. 20 ft.

**WILLS CREEK
SUB BASIN**



MUSKINGUM RIVER BASIN
WILLS CREEK SUBBASIN
STATE: OHIO

COSHOCTON, GUERNSEY, BELMONT, NOBLE, MUSKINGUM COUNTIES
SCALE 1/417,000

POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 1

OHIO MUSKINGUM RIVER BASIN

WILLS CREEK SUBBASIN

BUFFALO FORK WATERSHED

ELEVATION (FT MSL)	*HGT * (FT)*	*DAM * (FT)*	*STORAGE (AC-FT)	*AREA (AC)	*SURFACE * (1000*	*FILL * (YDS)*	*INSTALLATION COST	*UNIT COST	*GROSS YIELD *(MGD)
NORM EMERG DSGN TOP *MAX * BEN NORM TEMP TOTAL * CONST ENGR L/R PROJ TOTAL*AC-FT ACRE AC-FT* FOR									
POOL SPWY HIGH OF *HGT * USE POOL FLOOD E-S. POOL HIGH* CREST * WTR * ADM * STORE BEN BEN * 2									
*CREST WATER DAM * *									
ALLOC ALLOC STORE P.C.*									

SITE YOKER CREEK (26-7)

B DA= 21.22 SQ.MI. ELEV. BOTTOM C/L PROFILE= 817.0 POTENTIAL USES-FC RE

827.3	841.0	843	850	* 33 *	487	3030	3596	* 116	362	* 75 *	189	16	232	56	493*	137	*
839.4	847.8	850	856	* 39 *	2500	2987	3040	6106	* 301	466	* 111 *	261	19	300	68	648*	106
850.8	856.6	858	864	* 47 *	7029	7516	3056	10651	* 485	606	* 178 *	389	25	422	79	914*	86
859.0	863.9	865	870	* 53 *	11558	12044	3068	15192	* 619	687	* 245 *	508	30	534	91	1165*	77
872.1	876.1	877	882	* 65 *	20615	21102	3076	24257	* 757	810	* 395 *	746	45	678	134	1603*	66

SITE COLLINS FORK (31-2)

C DA= 20.95 SQ.MI. ELEV. BOTTOM C/L PROFILE= 825.0 POTENTIAL USES-FC

835.4	850.8	854	861	* 36 *	693	3435	4251	* 128	389	* 120 *	274	19	370	70	733*	173	*
852.0	859.1	863	869	* 44 *	4000	4693	2793	7609	* 356	499	* 189 *	394	25	459	79	957*	126
862.5	868.0	872	878	* 53 *	8469	9162	2793	12078	* 496	592	* 294 *	558	33	567	100	1258*	104
870.8	875.5	879	886	* 61 *	12938	13631	2793	16547	* 584	671	* 411 *	745	45	649	134	1573*	95
884.4	888.1	892	899	* 74 *	21876	22569	2793	25485	* 732	818	* 661 *	1127	68	784	203	2182*	86

POTENTIAL USE ABBREVIATIONS
 LF LOW FLOW AUGMENTATION
 LL LAKE LEVEL REGULATION
 RE RECREATION
 FC FLOOD CONTROL
 FW FISH AND WILDLIFE
 IR IRRIGATION
 SQ SEDIMENT CONTROL
 WQ WATER QUALITY CONTROL
 WS WATER SUPPLY
 ALL DATA BASED ON PRELIMINARY RESERVOIR LOCATIONS.
 PRICE BASE YEAR 1970

POTENTIAL RESERVOIR SITE 6 GN AND COST SUMMARY NO. 1

OHIO MUSKINGUM RIVER BASIN										WILLS CR. SUBBASIN										BUFFALO CR. WSHD																																							
ELEVATION (FT MSL)										STORAGE (AC-FT)										SURFACE (AC)										INSTALLATION COST										UNIT COST										GROSS YIELD									
*HGT * *DAM * *(FT)*										*HGT * *BEN * *USE *										*AREA * *(AC) * *(YDS)*										*FILL * *(1000)*										*(\$ PER										*(MGD)									
NORM EMERG DSGN TOP *MAX * BEN NORM TEMP TOTAL *NORM DSGN* VOL *CONST ENGR L/R PROJ TOTAL*										*SPRY HIGH OF *HGT * USE POOL FLOOD E.S. * POOL HIGH* CREST *										*WTR *										*AC-FT ACRES AC-FT* FOR										*STORE BEN BEN 2										*ALLOC ALLOC STORE* P.C.									
SITE LITTLE BUFFALO (1)																														8 DA= 3.34 SQ.MI. ELEV. BOTTOM C/L PROFILE= 873.0 POTENTIAL USES-FC RE																													
886.1 894.9 898 902 * 29 *										164 390 572 * 32 73 * 55 *										143 13 56 43 254* 445 *																																							
901.9 906.5 909 915 * 42 *										940 1104 394 1516 *										268 19 102 69 458* 302 3319 487* 0.94																																							
907.0 911.0 914 919 * 46 *										1397 1561 394 1973 *										328 22 134 75 559* 283 4129 400* 1.24																																							
SITE SOUTH FORK (2)																														C DA= 12.54 SQ.MI. ELEV. BOTTOM C/L PROFILE= 848.0 POTENTIAL USES-FC																													
860.0 868.6 872 877 * 29 *										876 1672 2648 * 146 301 * 72 *										188 15 211 55 469* 177 *																																							
866.0 868.5 872 876 * 28 *										1100 1976 497 2573 * 222 297 * 65 *										228 17 209 63 518* 201 997 471* 1.70																																							
868.6 871.1 875 879 * 31 *										1769 2645 586 3331 * 257 333 * 81 *										252 18 234 67 571* 171 1180 323* 2.26																																							
871.1 873.6 877 882 * 34 *										2437 3314 662 4076 * 288 364 * 99 *										275 19 253 70 618* 152 1282 253* 2.78																																							
873.4 875.9 879 884 * 36 *										3106 3982 731 4814 * 316 392 * 115 *										299 20 272 72 664* 138 1354 214* 3.28																																							
SITE NORTH FORK (3)																														B DA= 6.20 SQ.MI. ELEV. BOTTOM C/L PROFILE= 829.0 POTENTIAL USES-FC RE																													
844.8 852.5 855 862 * 33 *										489 745 1284 * 74 148 * 93 *										215 17 61 61 354* 276 *																																							
856.3 860.9 863 869 * 40 *										1320 1805 746 2605 * 157 209 * 148 *										313 21 111 74 519* 199 1677 393* 1.46																																							
863.4 866.9 868 874 * 45 *										2643 3132 748 3929 * 216 262 * 200 *										399 26 150 79 655* 167 2039 248* 2.34																																							
868.5 871.5 873 878 * 49 *										3876 4365 747 5162 * 264 303 * 248 *										477 29 181 87 774* 150 2200 200* 3.07																																							
POTENTIAL USE ABBREVIATIONS																																																											
FC FLOOD CONTROL										LF LOW FLOW AUGMENTATION										SD SEDIMENT CONTROL										WQ WATER QUALITY CONTROL																													
FW FISH AND WILDLIFE										LL LAKE LEVEL REGULATION										WS WATER SUPPLY										PRICE BASE YEAR 1970																													
ALL DATA BASED ON PRELIMINARY RESERVOIR LOCATIONS.																																																											

F.P.

WILLS CREEK SUBBASIN

OHIO MUSKINGUM RIVER BASIN

[illegible]

SITE DRY RUN (10A)	B	DA=	3.47 SQ.MI.	ELEV.	BOTTOM	C/L	PROFILE=	850.0	POTENTIAL	USES-P	WS	LF	RE				
854.8	861.5	864	870	20	*	109	479	607	*	43	112	10	103	34	259*	427	
860.8	865.3	867	873	23	*	416	525	479	1023	*	94	144	44	336*	328	1446	
864.3	868.0	870	875	25	*	786	895	479	1393	*	120	162	57	336*	279	1824	495* 0.85
867.0	870.3	872	877	27	*	1156	1266	479	1763	*	85	175	15	147	52	389*	279 1824
871.8	874.4	876	880	30	*	1897	2006	479	2503	*	177	208	16	161	59	438*	2468 2025
					*					*	114	208	18	186	67	526*	210 2252
					*					*							277* 1.55

SITE 20	C	DA=	1.51 SQ.MI.	ELEV.	BOTTOM	C/L	PROFILE=	891.0	POTENTIAL	USES-P	WS	LF	RE					
907.8	924.5	928	933	42	57	228	295	8	26	91	202	16	30	59	307	1039	8226	0.24
921.6	931.4	935	941	50	182	239	228	477	19	35	135	277	19	38	70	405	8321	0.37
928.8	936.1	939	945	54	344	401	228	640	27	41	165	334	22	43	75	473	740	0.48
934.0	940.4	944	950	59	506	563	228	802	34	47	204	394	25	46	79	545	679	0.67
942.3	947.3	950	957	66	831	887	228	1126	45	56	260	479	29	52	87	648	575	0.76

[illegible][illegible]

OHIO MUSKINGUM RIVER BASIN

[illegible][illegible]

SITE 12
B DA= 2.78 SQ-MI. ELEV. BOTTOM C/L PROFILE= 834.0 POTENTIAL USES-FP WS LF RE
Leatherwood Creek watershed

[illegible]

crooked Creek Watershed

[illegible]

SITE FOX CREEK (3)

894.6	899.5	903	910	* 63	* 1881	1981	526	2526 *	107	140 *	274 *	536	32	107	96	772*	305	5374	410*	1.51
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[illegible]

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 104

	POTENTIAL USE ABBREVIATIONS				SEDIMENT CONTROL		WATER QUALITY CONTROL		PRICE BASE YEAR 1971
	LF	LL	WQ	WS	WQ	WS	WS		
FLOOD CONTROL									
FISH AND WILDLIFE									
IRRIGATION									
RECREATION									
LOW FLOW AUGMENTATION									
LAKE LEVEL REGULATION									
LAKE RECREATION									
WATER SUPPLY									

PRICE BASE YEAR 1971

POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 3

OHIO MUSKINGUM RIVER BASIN

WILLS CREEK SUBBASIN

CROOKED CREEK WATERSHED

W.F.P.

ELEVATION (FT MSL)	*HGT *DAM *(FT)	*STORAGE (AC-FT)	*SURFACE *AREA *(AC)	*FILL *(1000) *YDS	*INSTALLATION COST (\$1000)	*UNIT COST (\$ PER	*GROSS *YIELD *(MGD)
NORM EMERG DSGN TOP	*MAX	BEN NORM TEMP TOTAL	*NORM DSGN	VOL	*CONST ENGR L/R PROJ TOTAL	AC-FT ACRE	AC-FT
POOL SPWY HIGH OF	*HGT	*USE POOL FLOOD E.S.	*POOL HIGH		ADM	BEN	* 2
CREST WATER DAM		CREST	WTR		*ALLOC ALLOC STORE	P.C.	

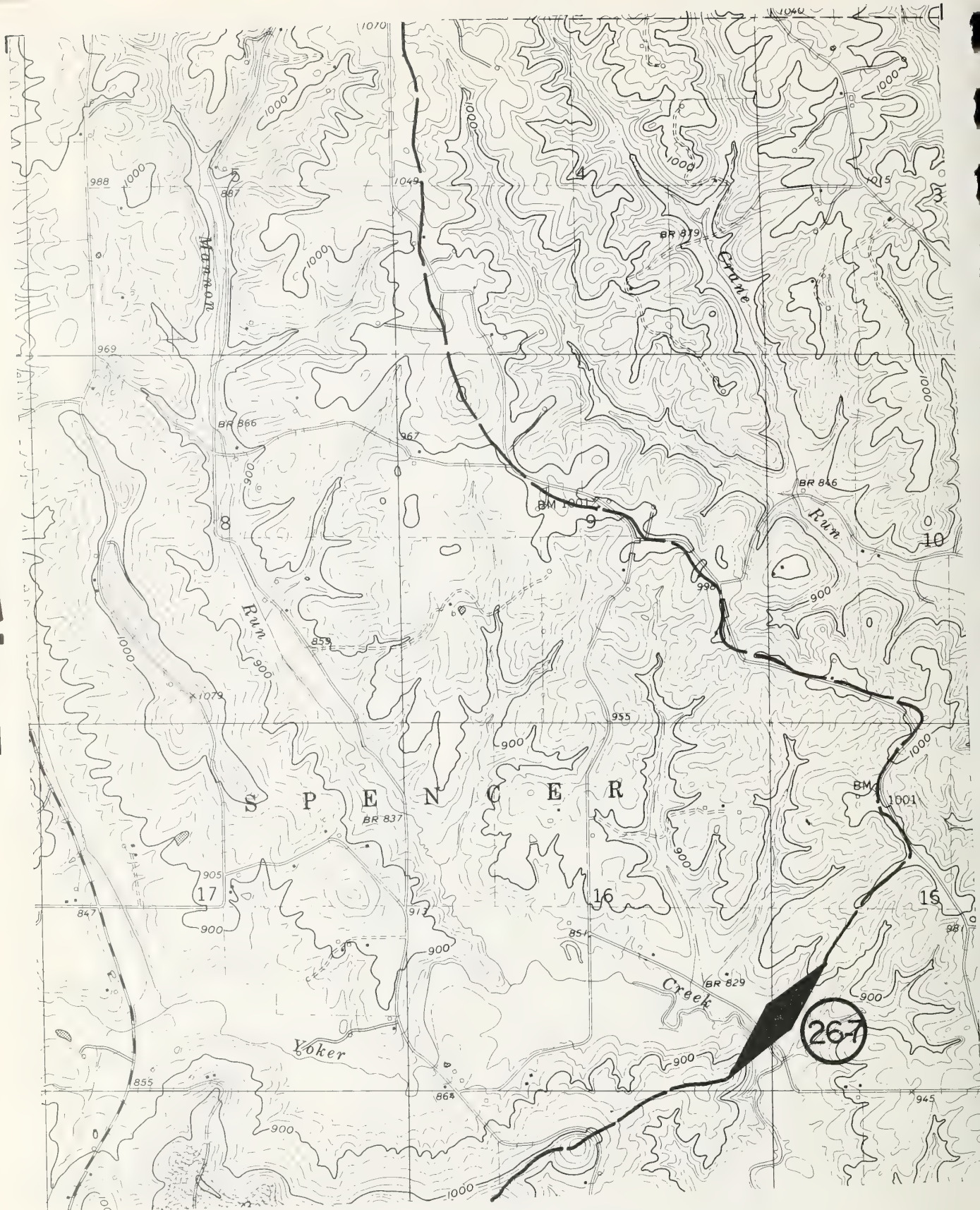
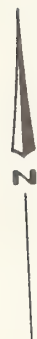
SITE PLEASANT VALLEY (+)	C	DA=	4.17 SQ-MI.	ELEV. BOTTOM C/L PROFILE=	828.0	POTENTIAL USES-FP WS LF RE				
867.5 872.0 875 882	* 54	* 1835	1971 638	2633	* 128 188	* 194	* 402 26 161 79 668	* 254 3644	364	1.59
870.5 874.5 878 885	* 57	* 2280	2416 638	3078	* 152 208	* 226	* 456 28 175 84 743	* 241 3625	326	1.85

FC FLOOD CONTROL	LF LOW FLOW AUGMENTATION	SD SEDIMENT CONTROL
FW FISH AND WILDLIFE	LL LAKE LEVEL REGULATION	WQ WATER QUALITY CONTROL
IR IRRIGATION	RE RECREATION	WS WATER SUPPLY

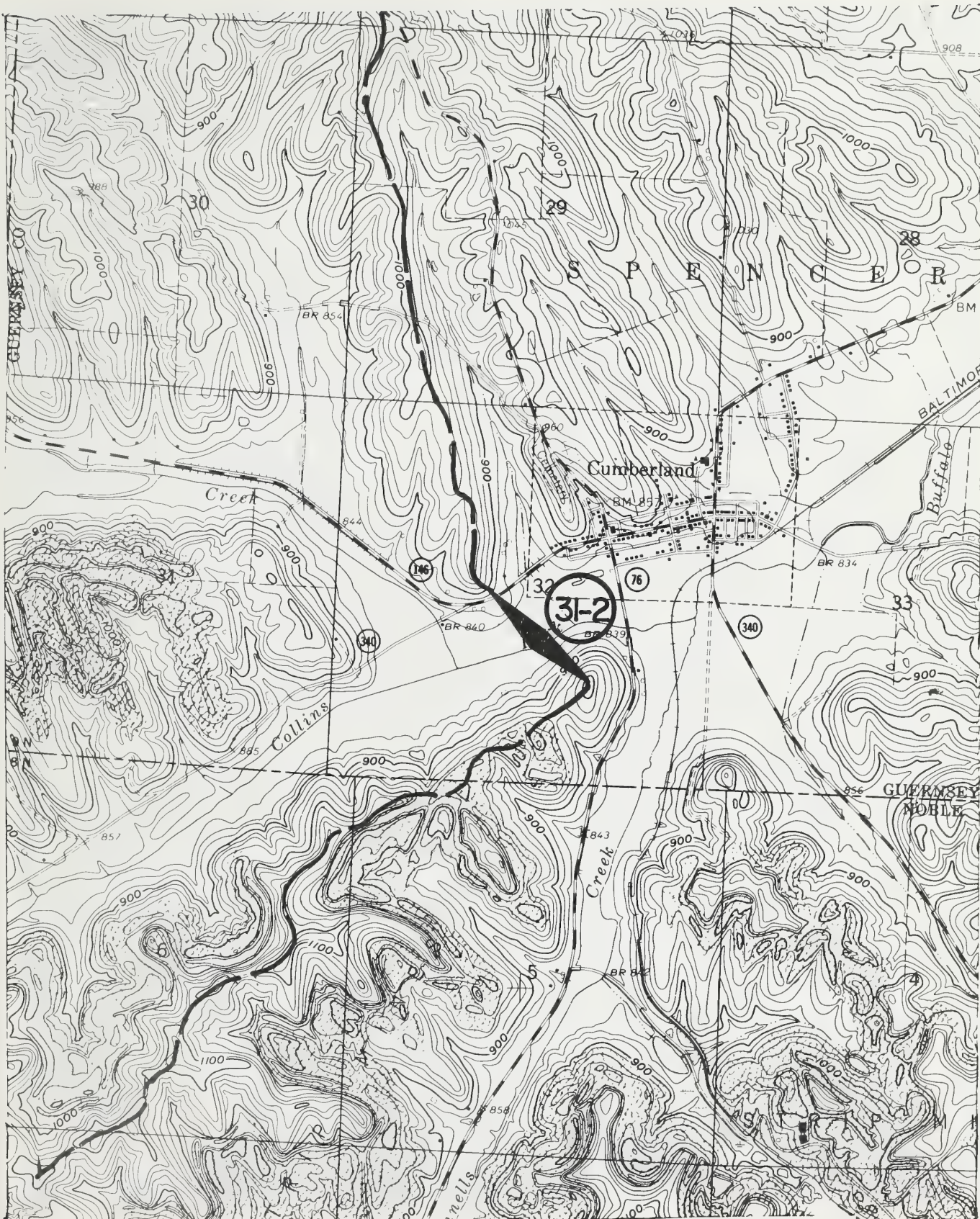
POTENTIAL USE ABBREVIATIONS

PRICE BASE YEAR 1971

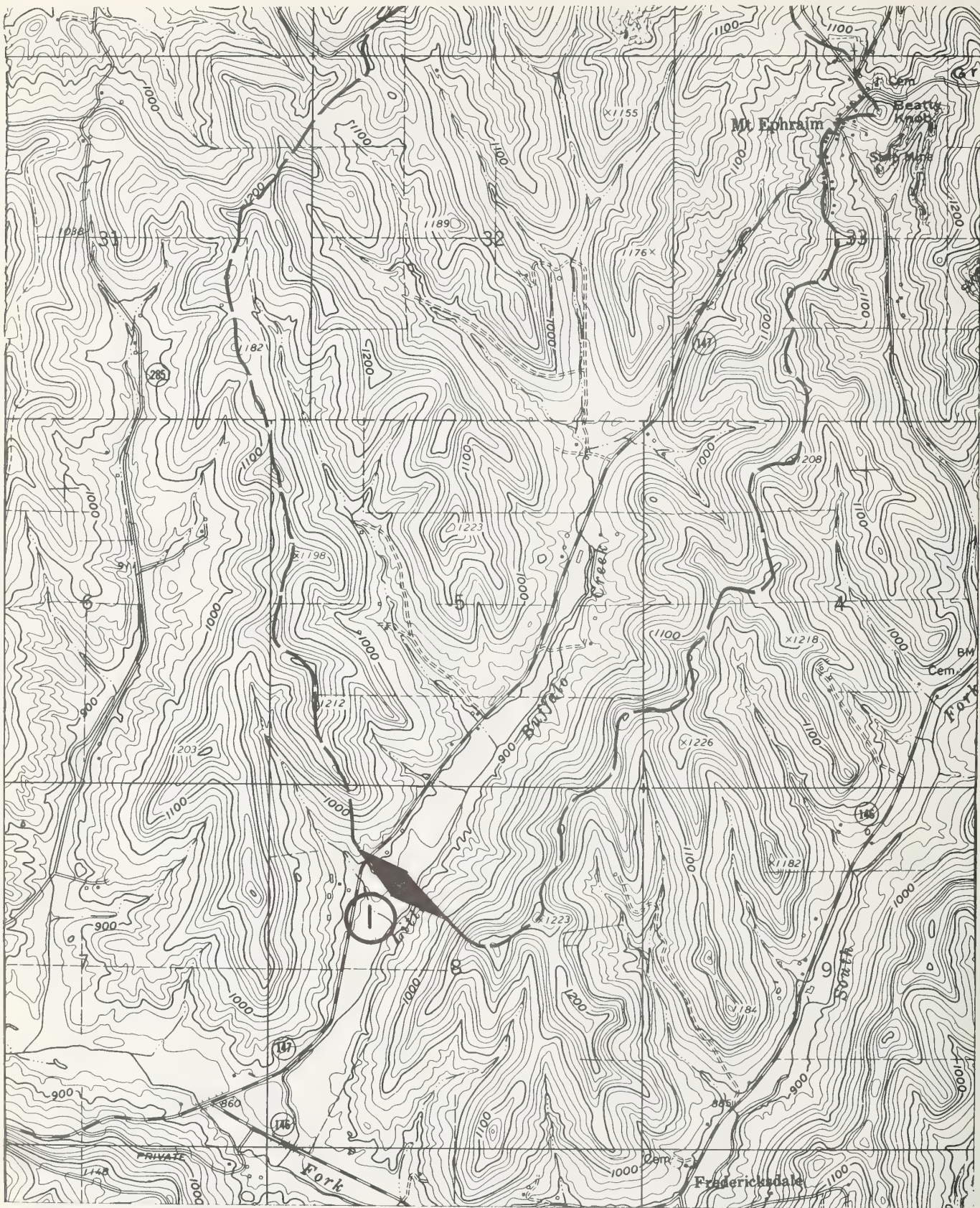
ALL DATA BASED ON PRELIMINARY RESERVOIR LOCATIONS.



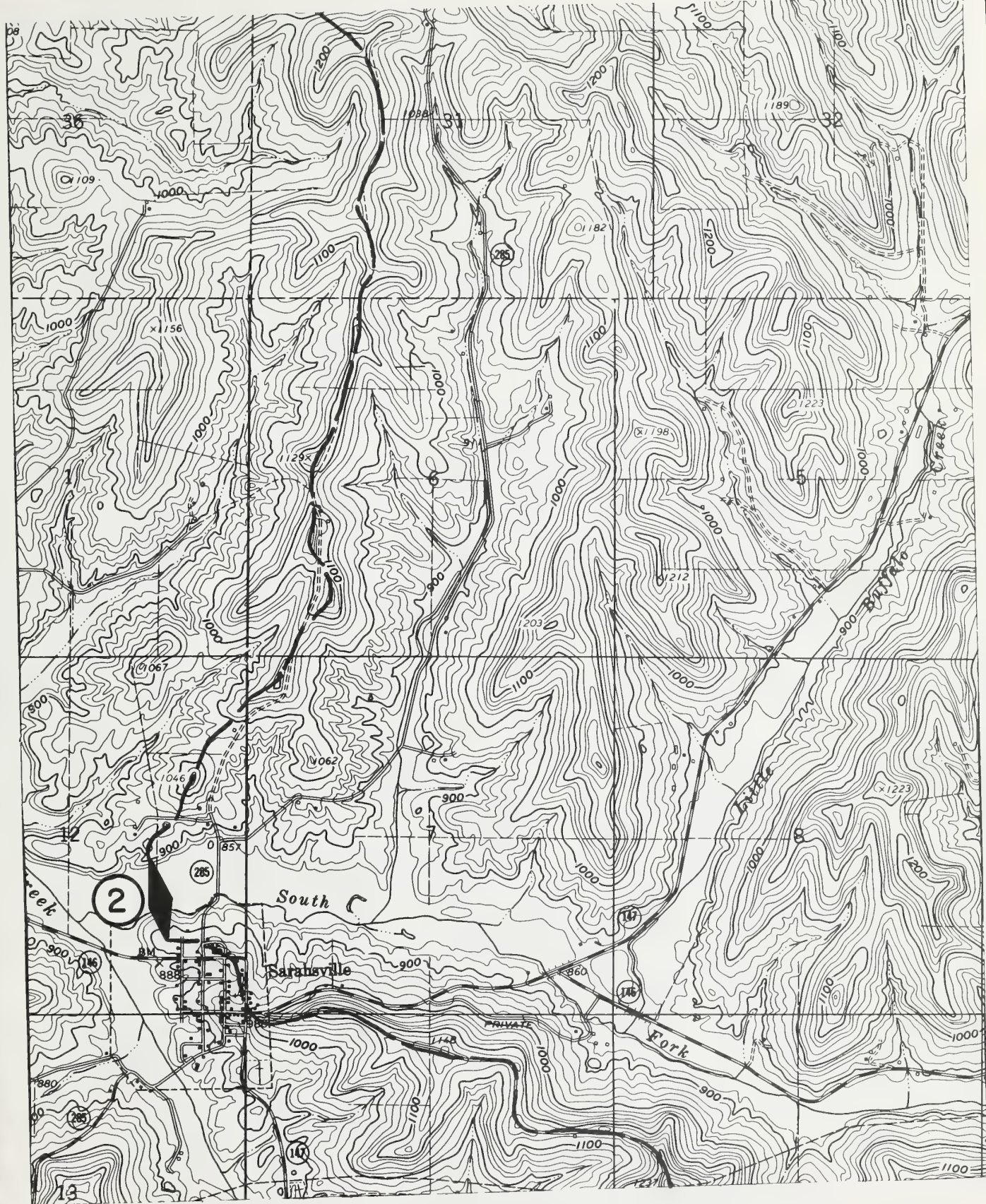
SITE NO. 4C - 7.2 (26-7)
SUBWATERSHED WILLS CREEK (BUFFALO FORK)
LOCATION CO. GUERNSEY TWP. SPENCER
SEC. 16 SE 1/4 OF SE 1/4
QUAD. NEW CONCORD
SCALE 1:24000 C.I. 20 FT. ft.



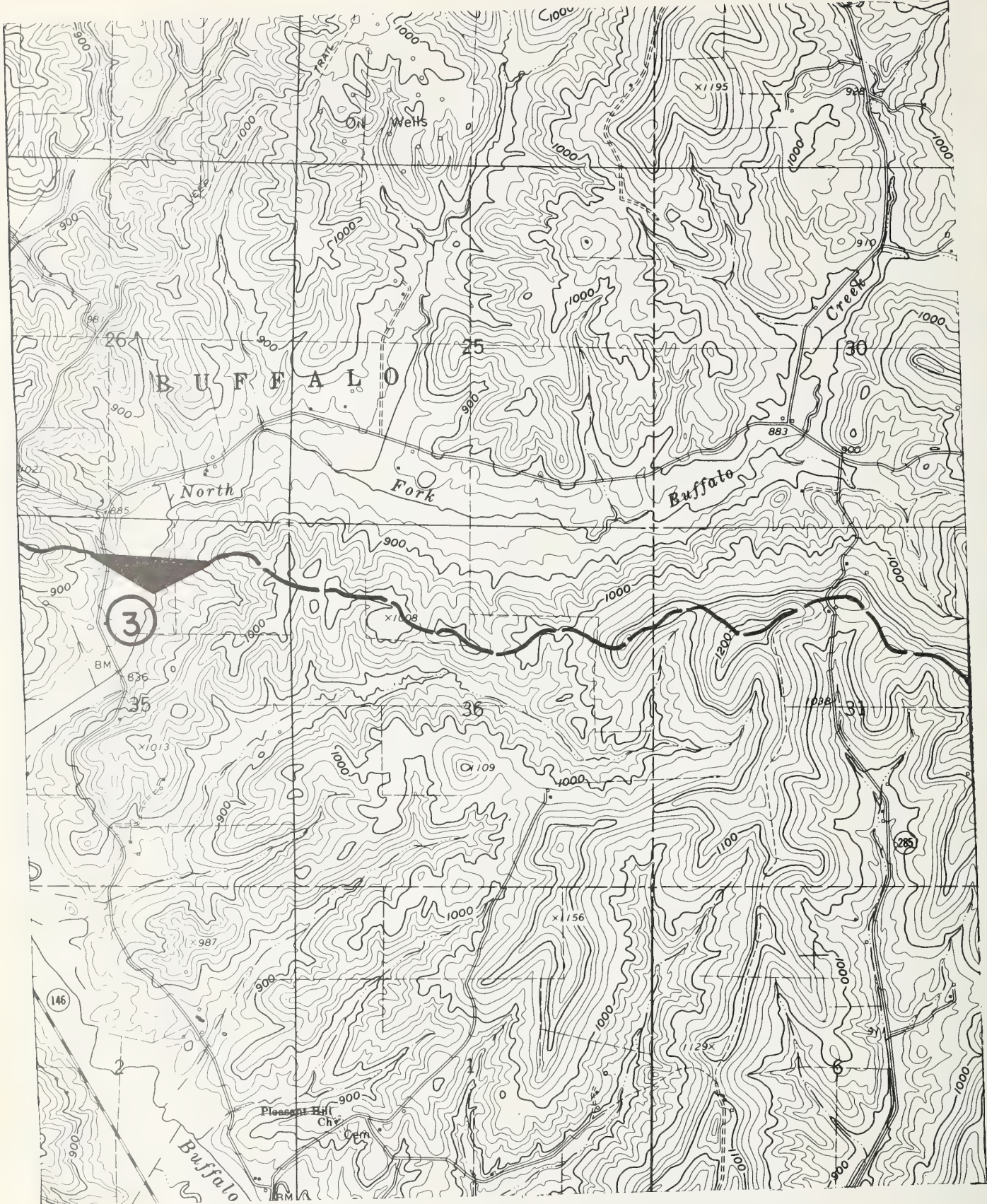
SITE NO. 4C-7 2 (31-2)
 SUBWATERSHED WILLS CREEK (BUFFALO FORK)
 LOCATION CO. GUERNSEY TWP. SPENCER
 SEC. 32 NE 1/4 OF SE 1/4
 QUAD. CUMBERLAND
 SCALE 1:24000 C.I. 20 FT. ft.



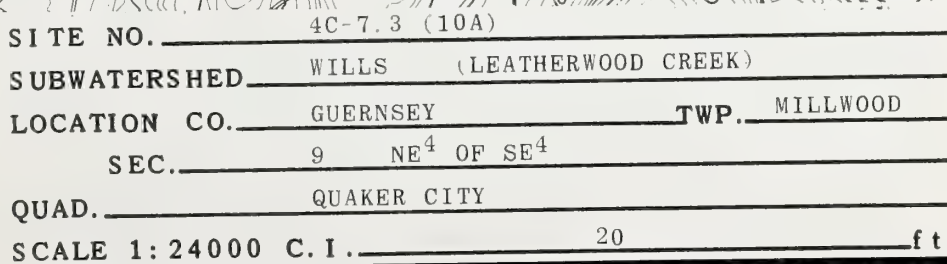
SITE NO. 4C-7.1 (1)
SUBWATERSHED WILLS CREEK (BUFFALO CREEK)
LOCATION CO. NOBLE TWP. CENTER
SEC. 8 SW⁴ OF NW⁴
QUAD. SARAHSVILLE
SCALE 1:24000 C. I. 20 ft.

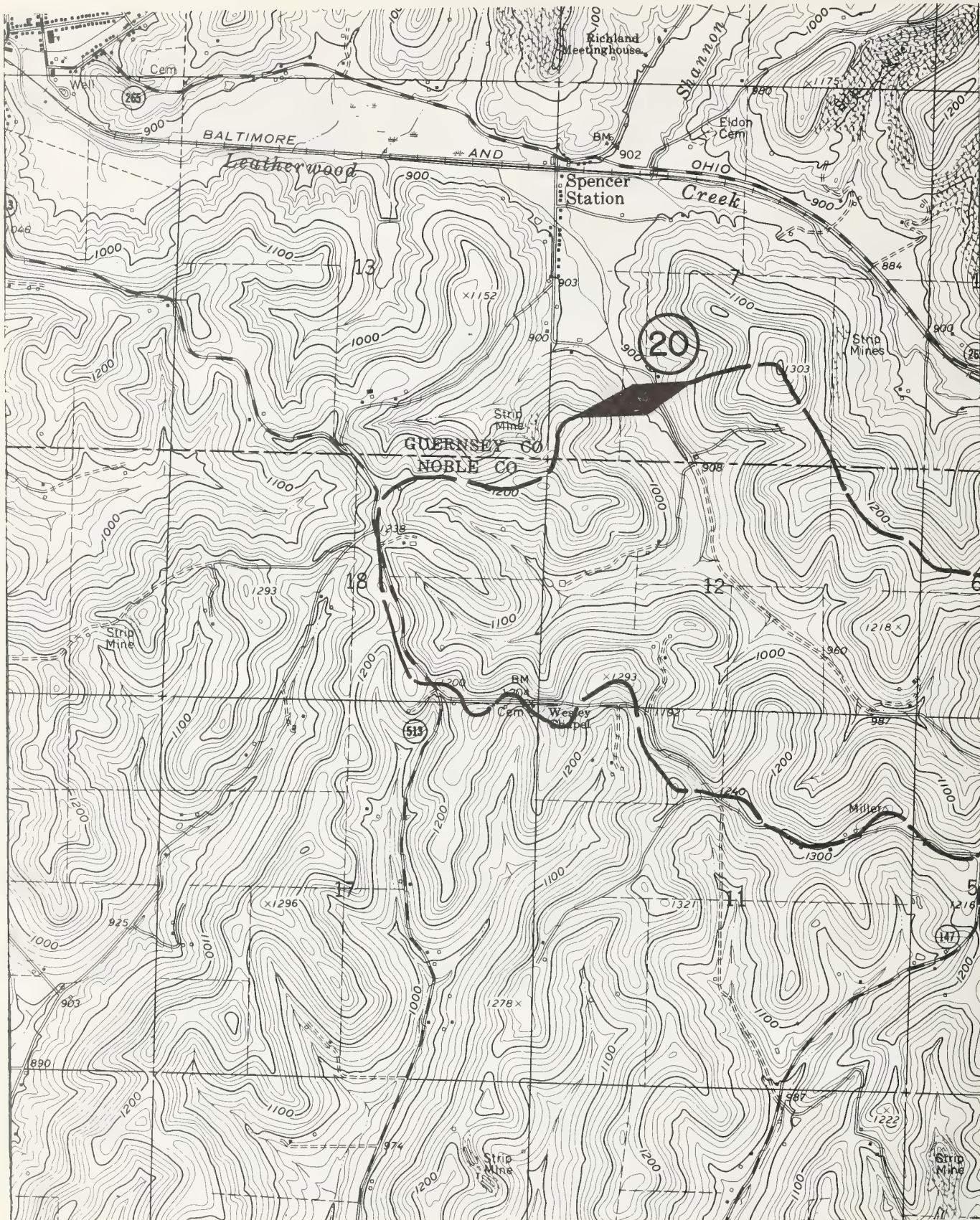


SITE NO. 4C-7.1 (2)
 SUBWATERSHED WILLS (BUFFALO CREEK)
 LOCATION CO. NOBLE TWP. CENTER
 SEC. 12 NE⁴ OF SE⁴
 QUAD. SARAHVILLE
 SCALE 1:24000 C.I. 20 ft.

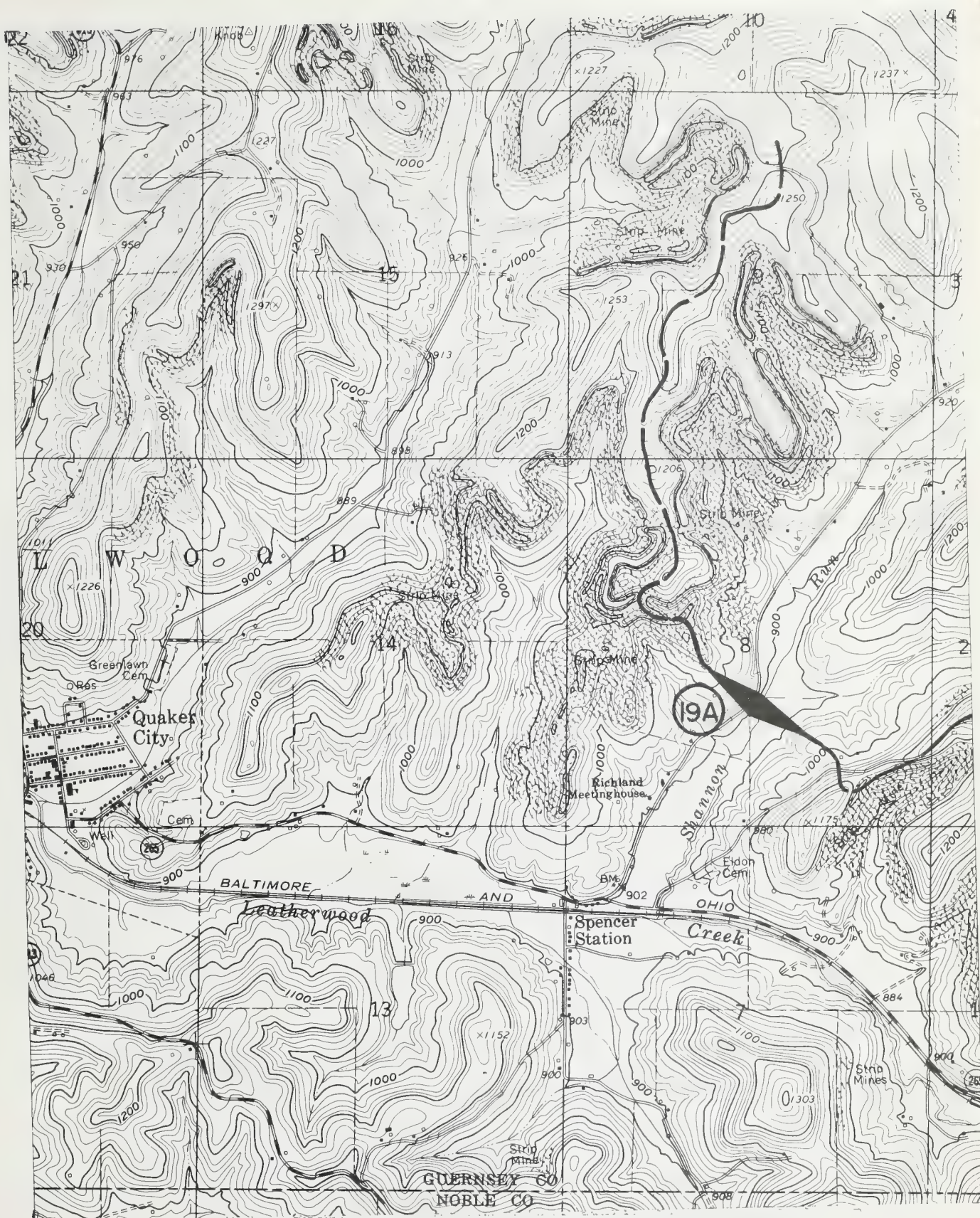


SITE NO. 4C-7.1 (3)
SUBWATERSHED WILLS CREEK (BUFFALO FORK)
LOCATION CO. NOBLE TWP. BUFFALO
SEC. 35 NW⁴ OF NE⁴
QUAD. SARAHVILLE
SCALE 1:24000 C.I. 20 ft.

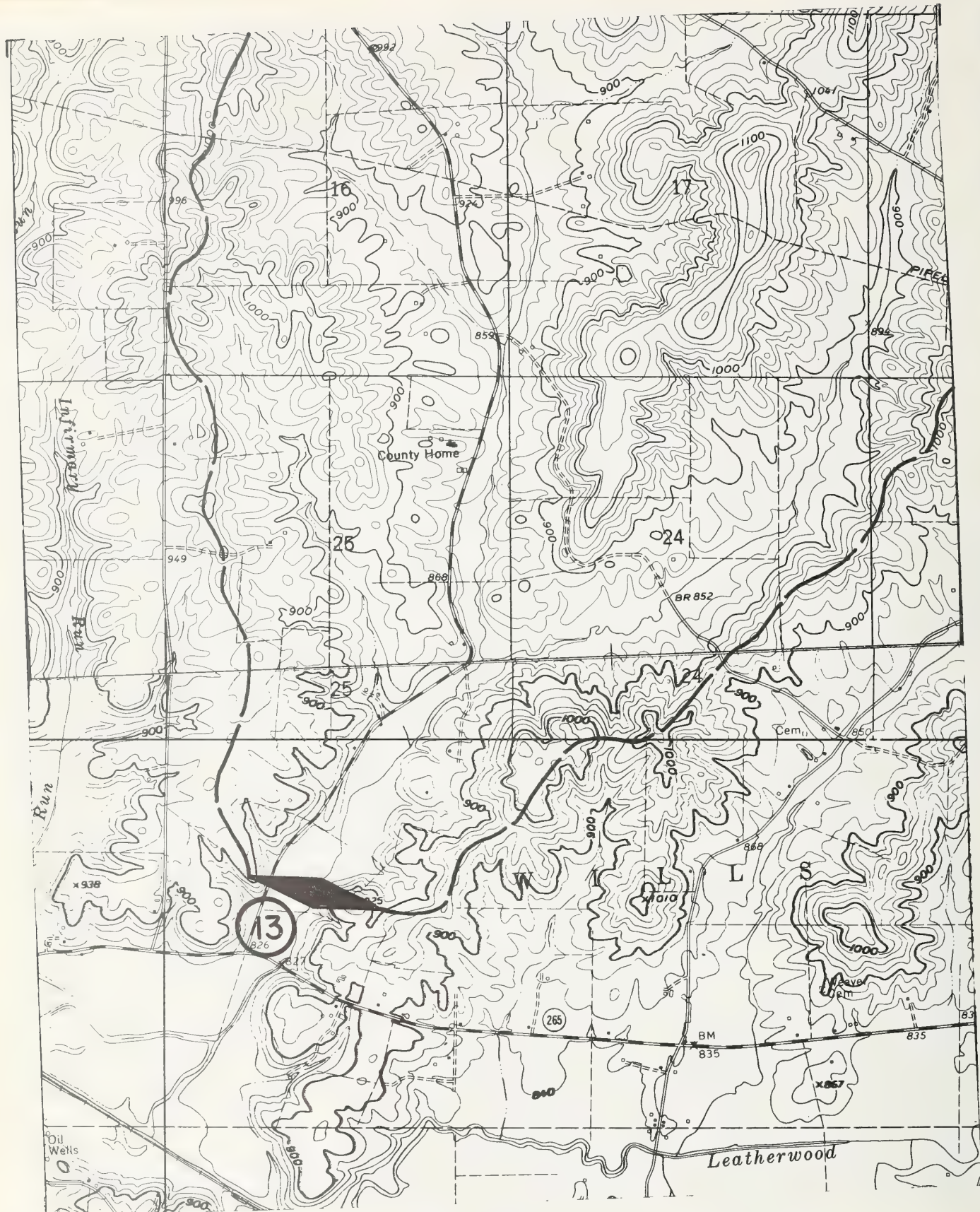




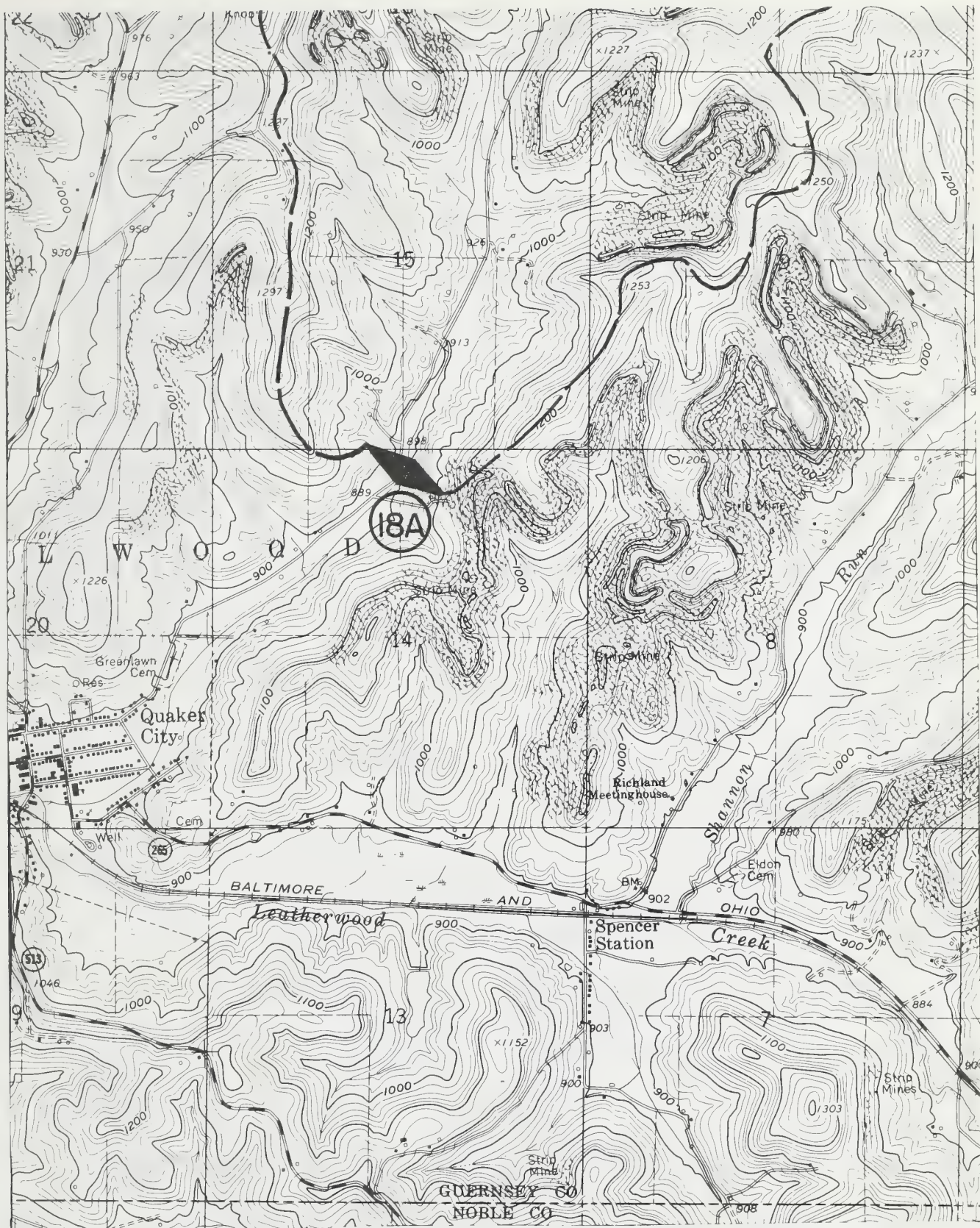
SITE NO. 4C-7.3 (20)
SUBWATERSHED WILLS CREEK (LEATHERWOOD)
LOCATION CO. GUERNSEY TWP. MILLWOOD
SEC. 7 SW⁴ OF SW⁴
QUAD. QUAKER CITY
SCALE 1:24000 C.I. 20 ft.



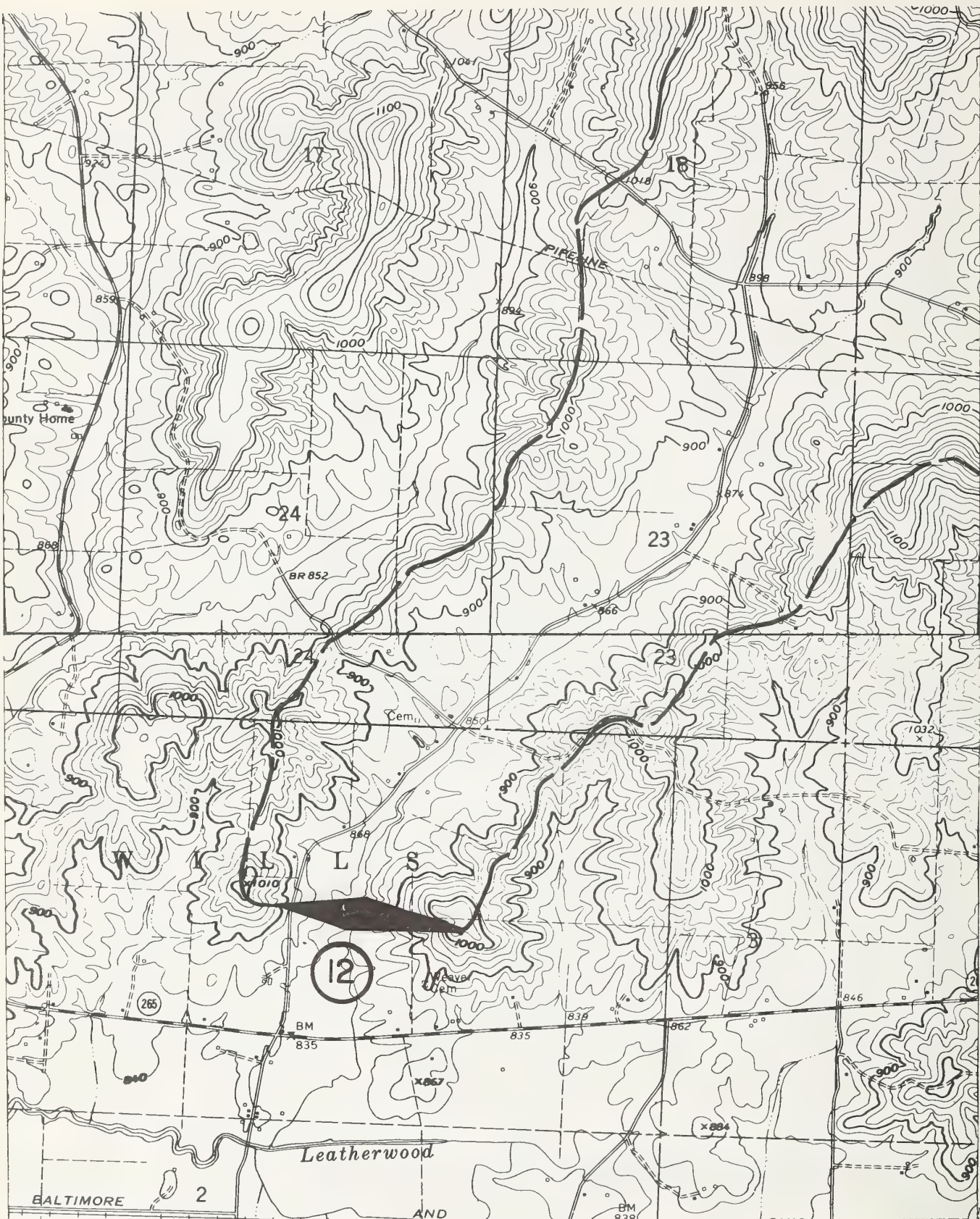
SITE NO. 4C-7.3 (19A)
 SUBWATERSHED WILLS CREEK (LEATHERWOOD)
 LOCATION CO. GUERNSEY RWP. MILLWOOD
 SEC. 8 NW⁴ OF SE⁴
 QUAD. QUAKER CITY
 SCALE 1:24000 C.1. 20 ft.



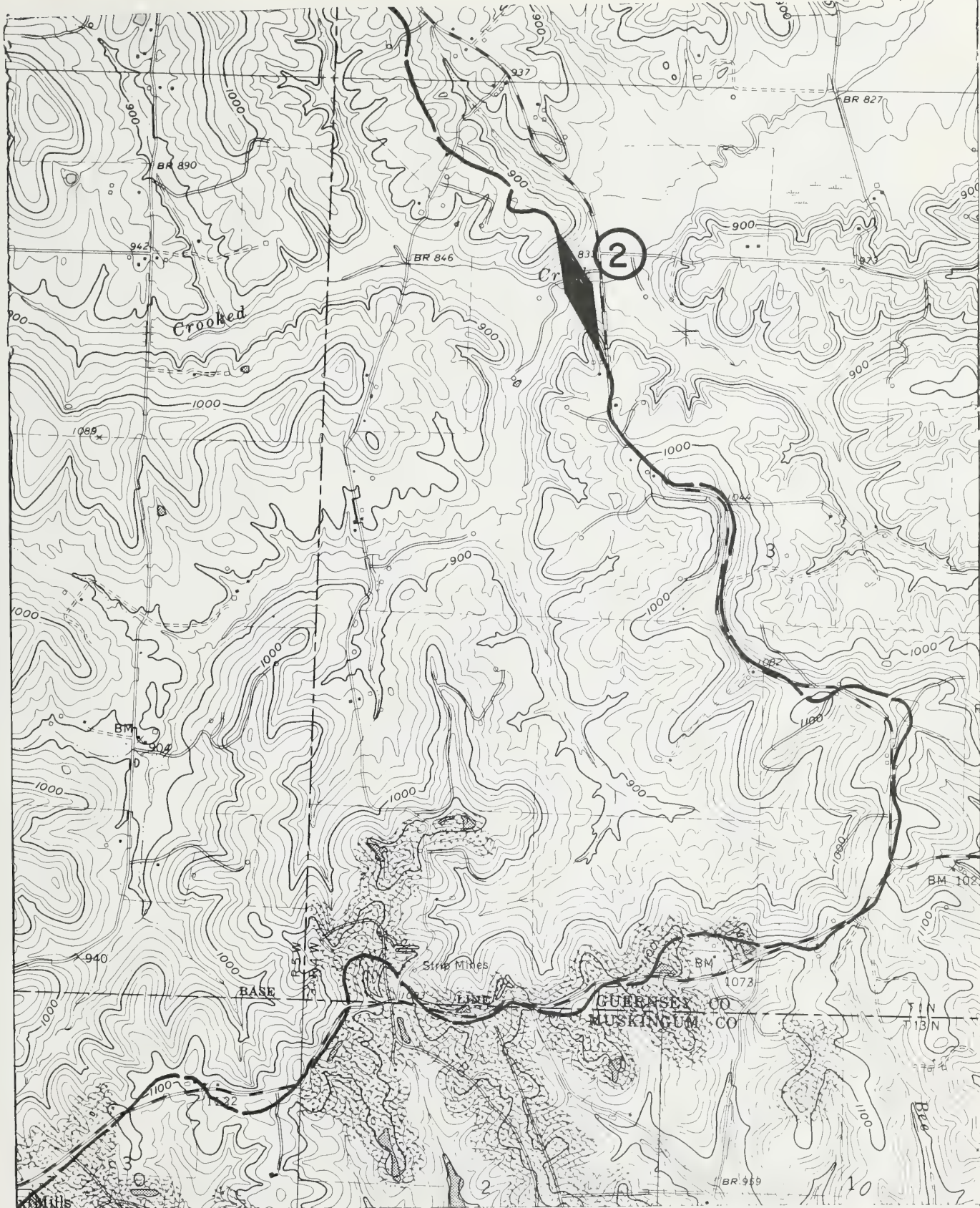
SITE NO. 4C-7.3 (13)
 SUBWATERSHED WILLS CREEK (LEATHERWOOD)
 LOCATION CO. GUERNSEY TWP. WILLS
 SEC. LOT 2 NW⁴ OF NW⁴
 QUAD. SENECAVILLE
 SCALE 1:24000 C.I. 20 ft.



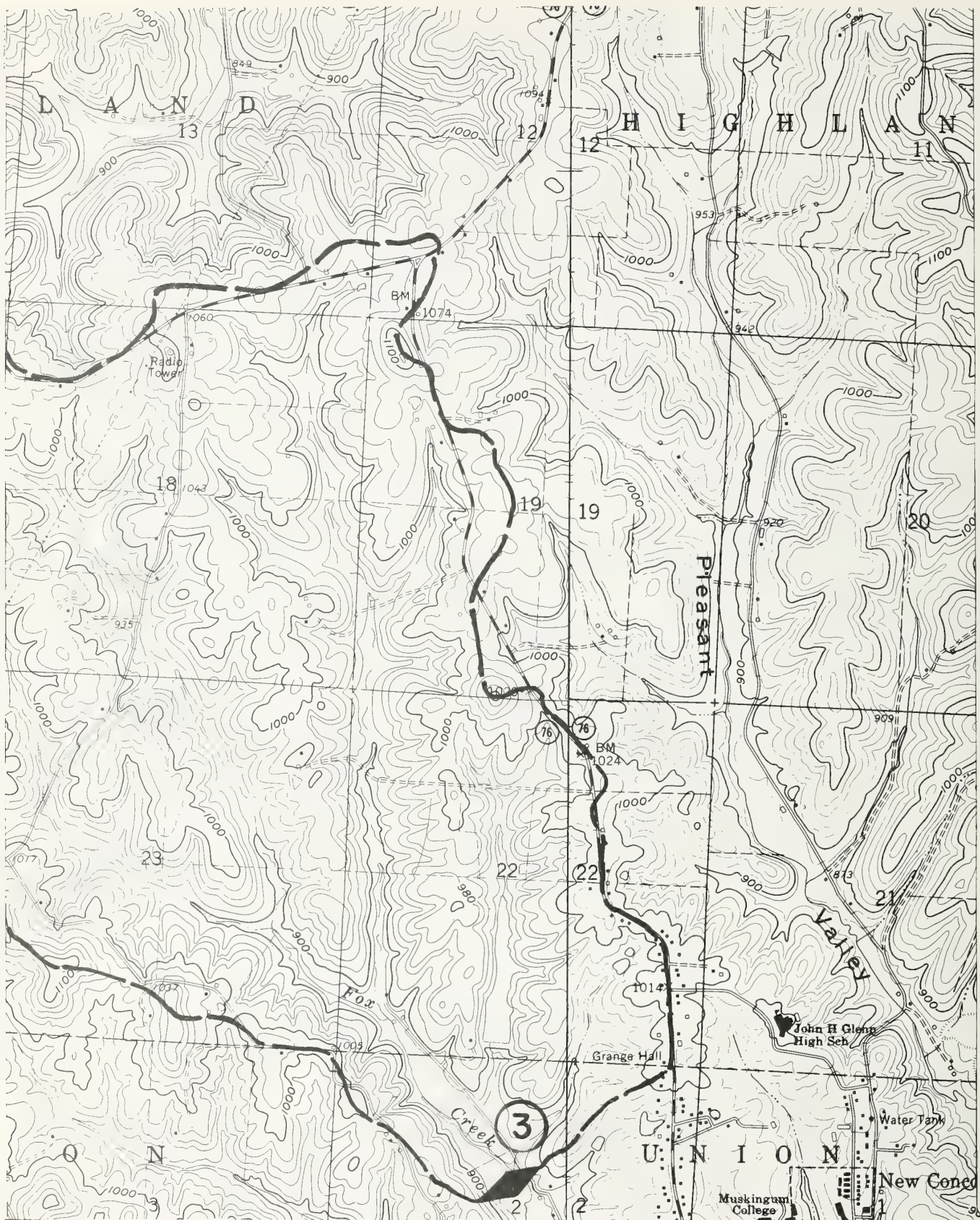
SITE NO. 4C-7.1 (18A)
 SUBWATERSHED WILLS CREEK (LEATHERWOOD CREEK)
 LOCATION CO. GUERNSEY TWP. MILWOOD
 SEC. 14 NW⁴ OF NE⁴
 QUAD. QUAKER CITY
 SCALE 1:24000 C.I. 20 ft.



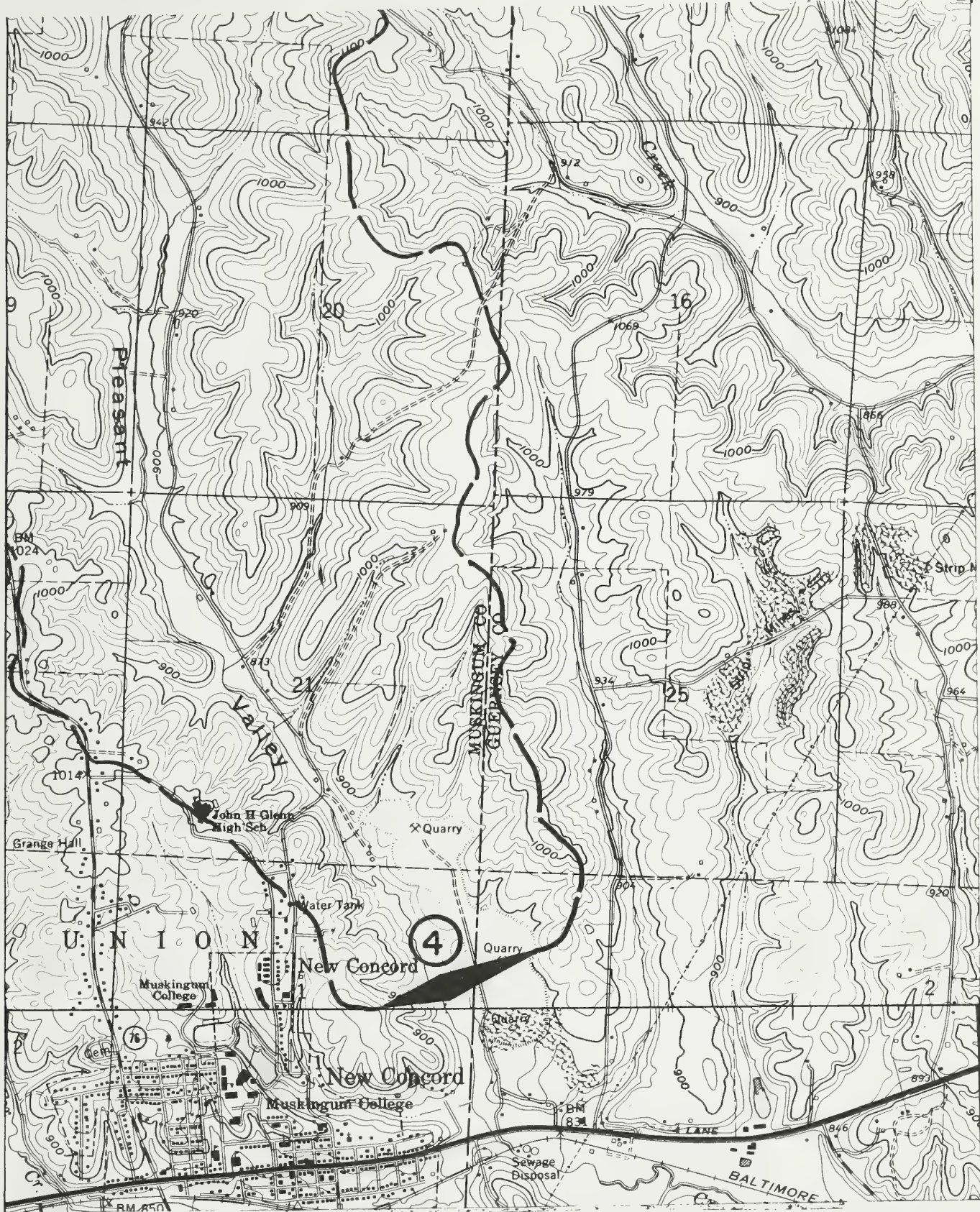
SITE NO. 4C-7.3 (12)
 SUBWATERSHED WILLS CREEK (LEATHERWOOD)
 LOCATION CO. GUERNSEY TWP. WILLS
 SEC. 2 NW 1/4 OF NE 1/4
 QUAD. SENECAVILLE
 SCALE 1:24000 C.I. 20 FT. ft.



SITE NO. 4C-6 (2)
 SUBWATERSHED WILLS CREEK (CROOKED CREEK)
 LOCATION CO. GUERNSEY TWP. WESTLAND
 SEC. LOT 3 NE⁴ OF NW⁴
 QUAD. NEW CONCORD
 SCALE 1:24000 C. I. 20 ft.



SITE NO. 4C-6 (3)
 SUBWATERSHED WILLS CREEK (CROOKED CREEK)
 LOCATION CO. MUSKINGUM TWP. UNION
 SEC. 2 SE⁴ OF NW⁴
 QUAD. OTSEGO
 SCALE 1:24000 C. I. 20 ft.



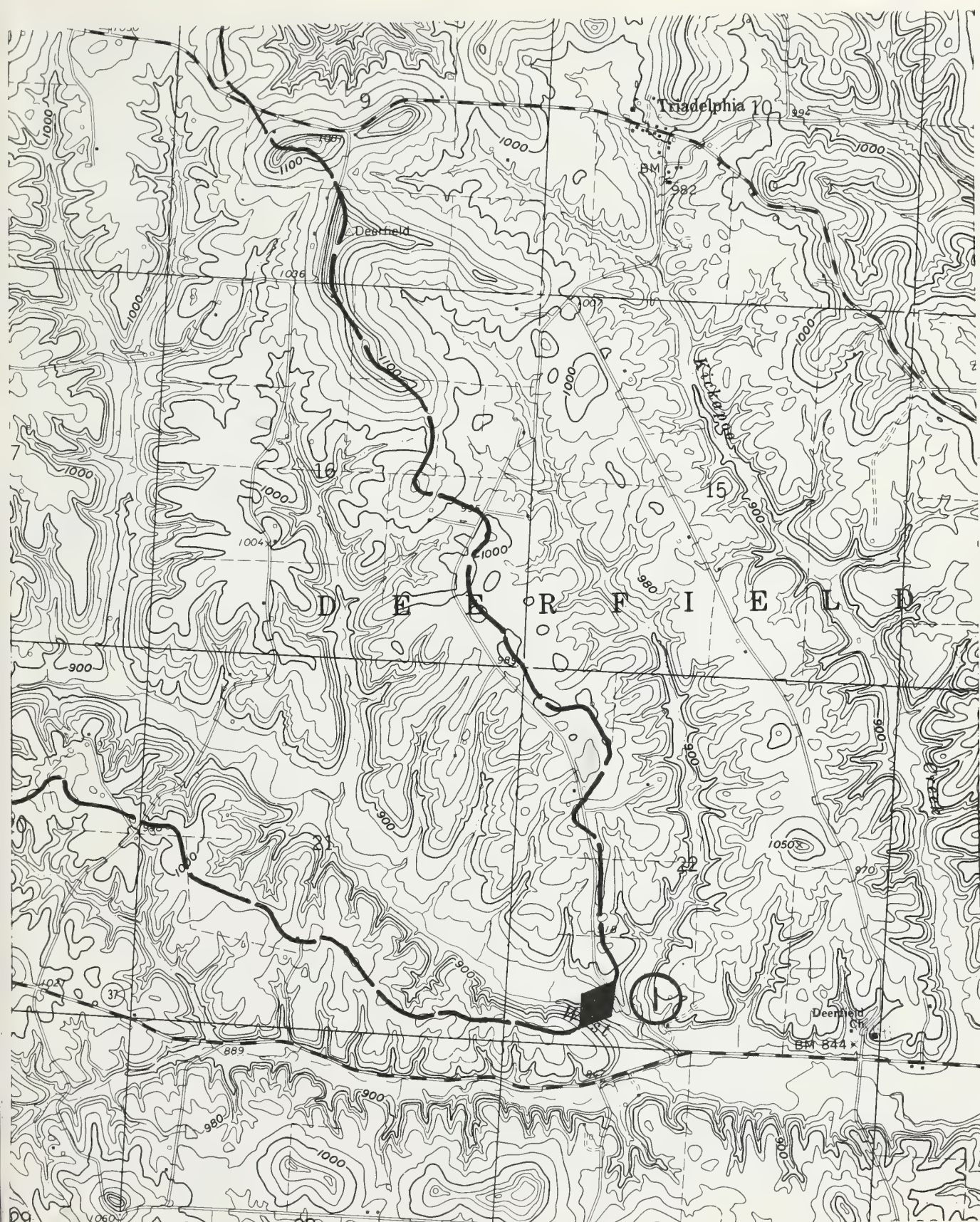
SITE NO. 4C-6 (4)
 SUBWATERSHED WILLS CREEK (CROOKED CREEK)
 LOCATION CO. MUSKINGUM TWP. UNION
 SEC. 1 SE 1/4 OF NE 1/4
 QUAD. BLOOMFIELD
 SCALE 1:24000 C.I. 20 FT. ft.

**WOLF CREEK
SUB BASIN**

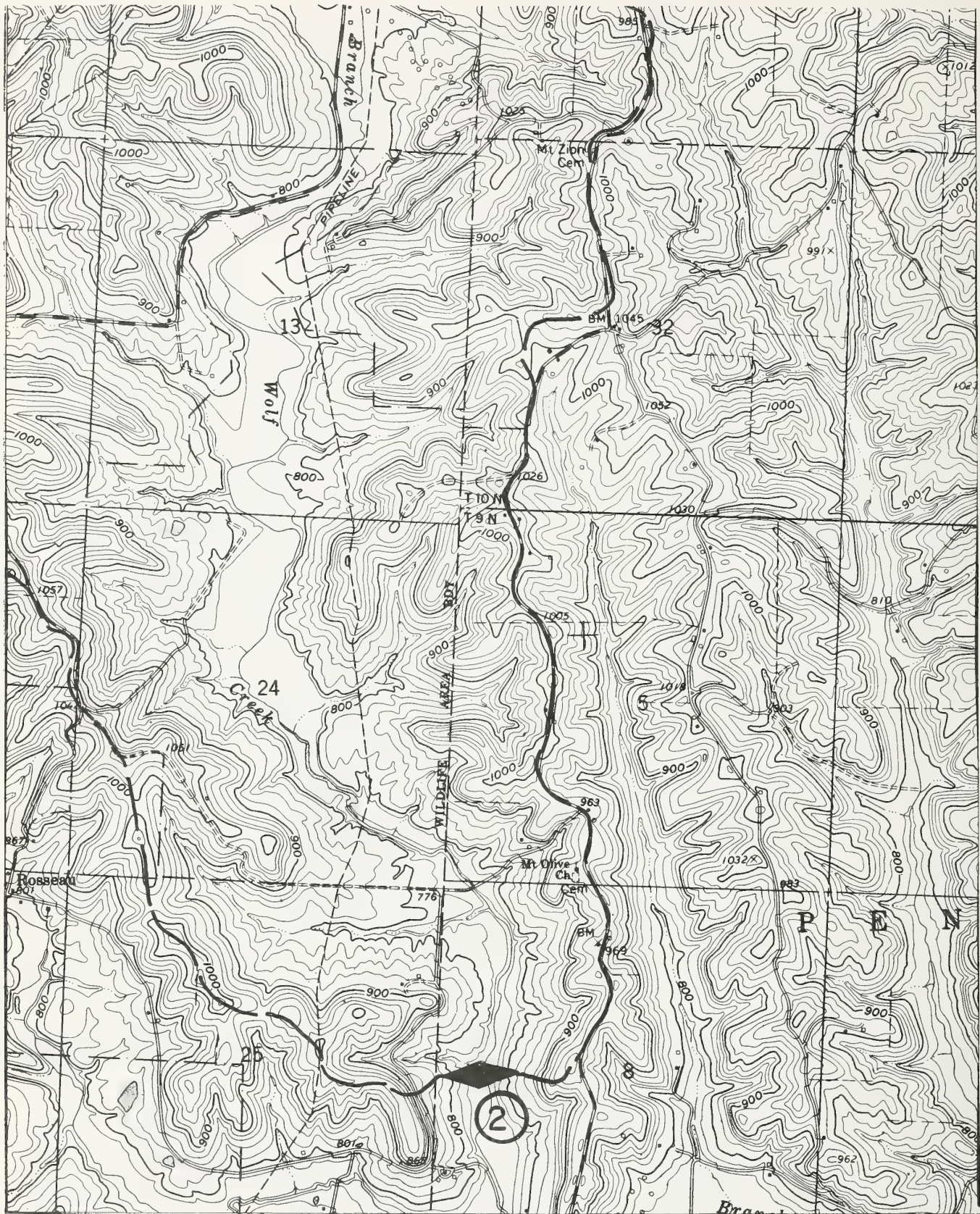


MUSKINGUM RIVER BASIN
WOLF CREEK SUB BASIN
STATE: OHIO
MORGAN, WASHINGTON COUNTIES
SCALE 1/417,000

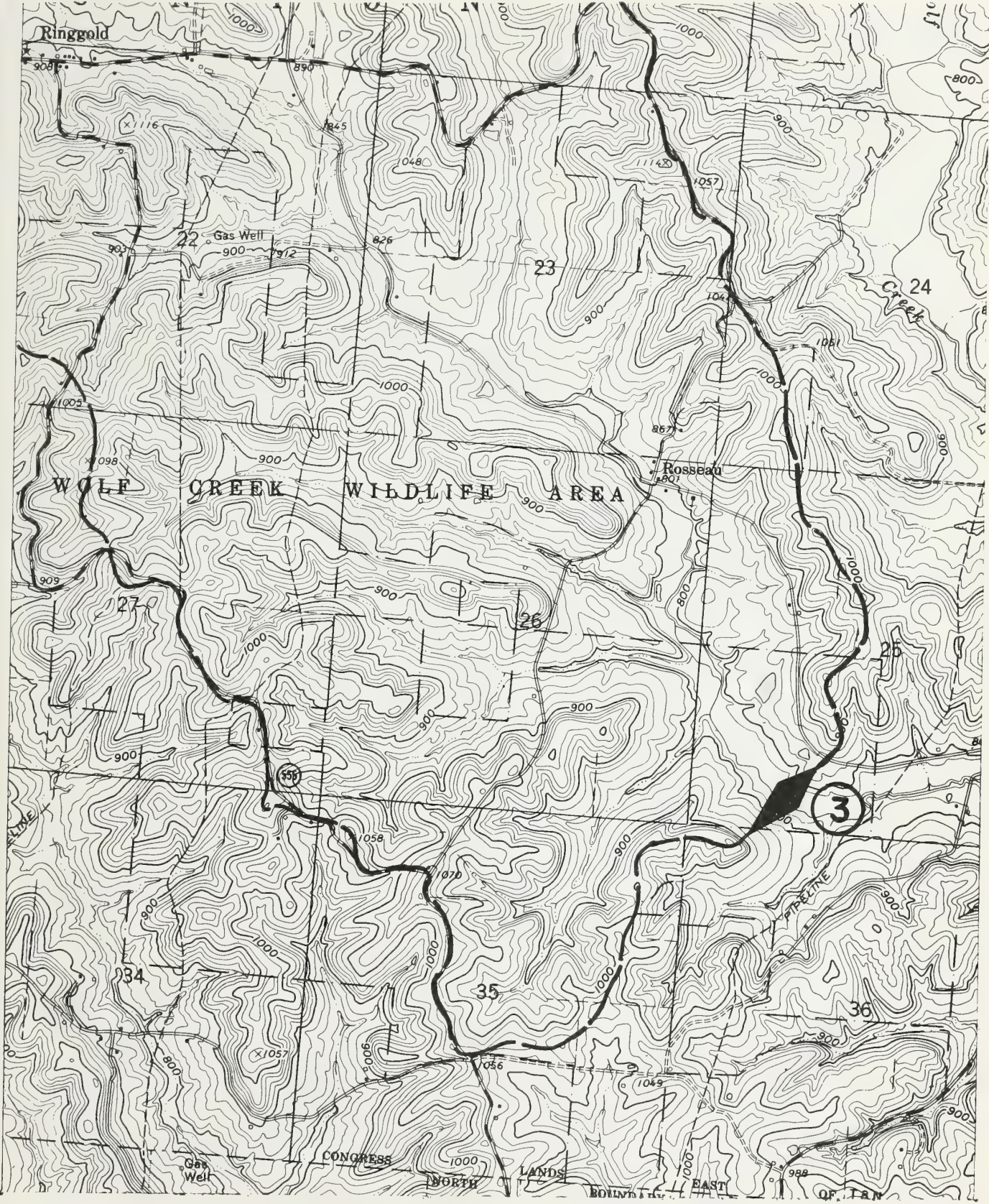
[illegible][illegible]



SITE NO. 4-4 (1)
SUBWATERSHED WOLF CREEK
LOCATION CO. MORGAN TWP. DEERFIELD
SEC. 22 SE⁴ AND SW⁴ OF SW⁴
QUAD. ROKEBY LOCK
SCALE 1:24000 C.I. 20 ft.



SITE NO. 4-4 (2)
 SUBWATERSHED WOLF CREEK
 LOCATION CO. MORGAN TWP. PENN
 SEC. 8 NW⁴ OF SW⁴
 QUAD. RINGGOLD
 SCALE 1: 24000 C. I. 20 ft.



SITE NO. 4-4 (3)
SUBWATERSHED WOLF CREEK
LOCATION CO. MORGAN TWP. UNION
SEC. 25 SW⁴ OF SW⁴
QUAD. RINGGOLD
SCALE 1:24000 C.I. 20 ft.



SITE NO. 4 - 4 (4)

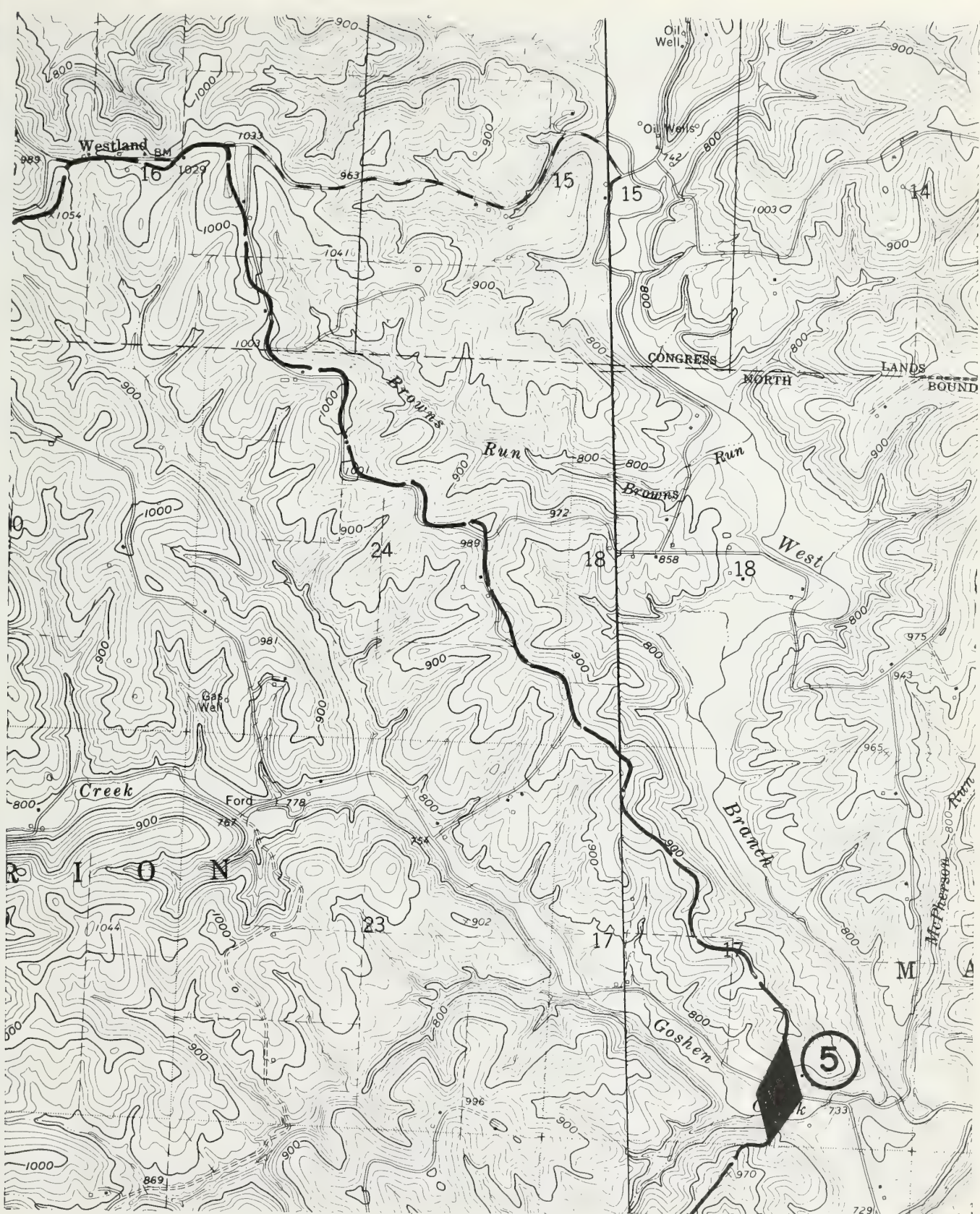
SUBWATERSHED WOLF CREEK

LOCATION CO. MORGAN TWP. PENN

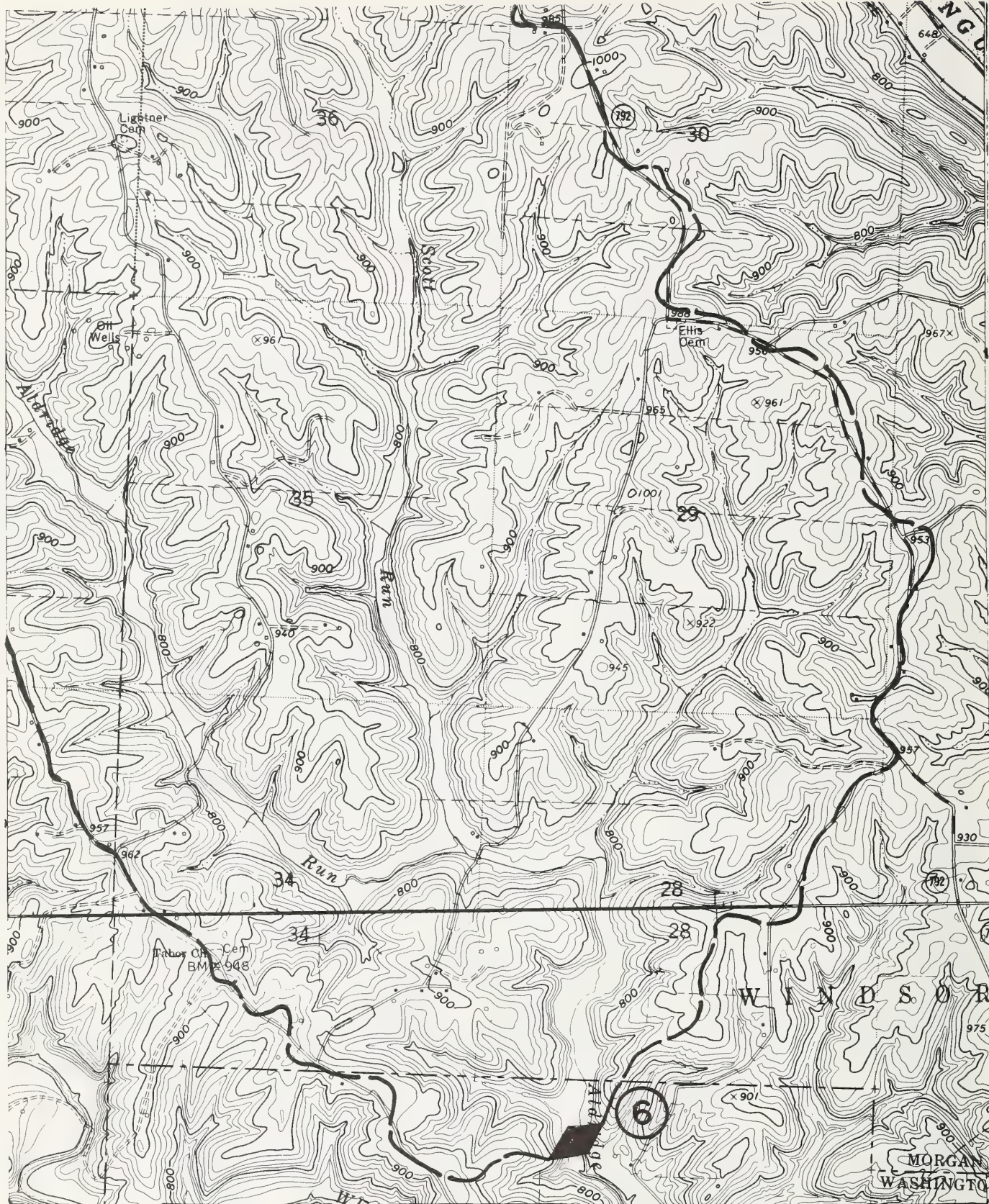
SEC. NW 1/4 OF SE 1/4

QUAD. STOCKPORT

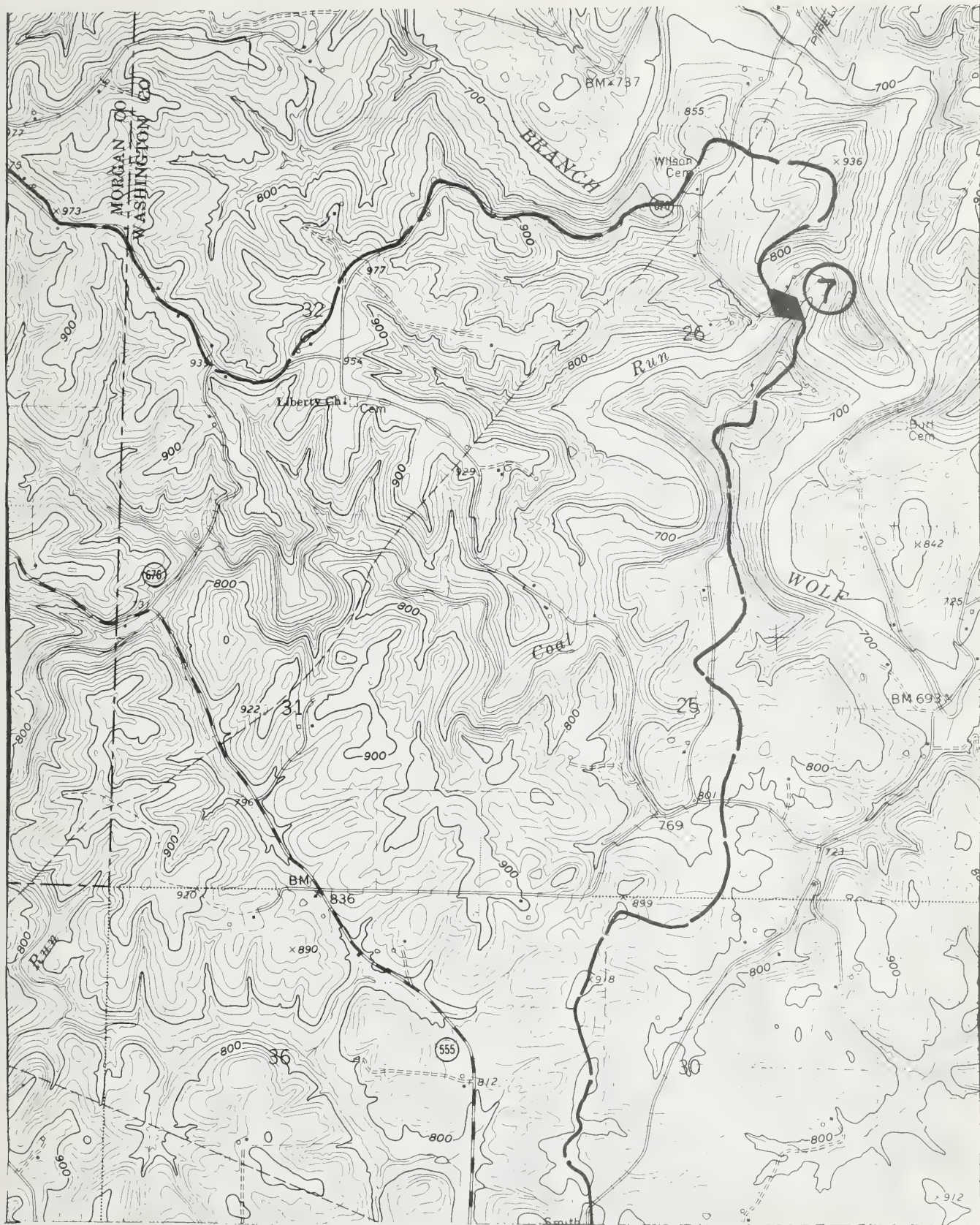
SCALE 1: 24000 C. I. 20 FT. ft.



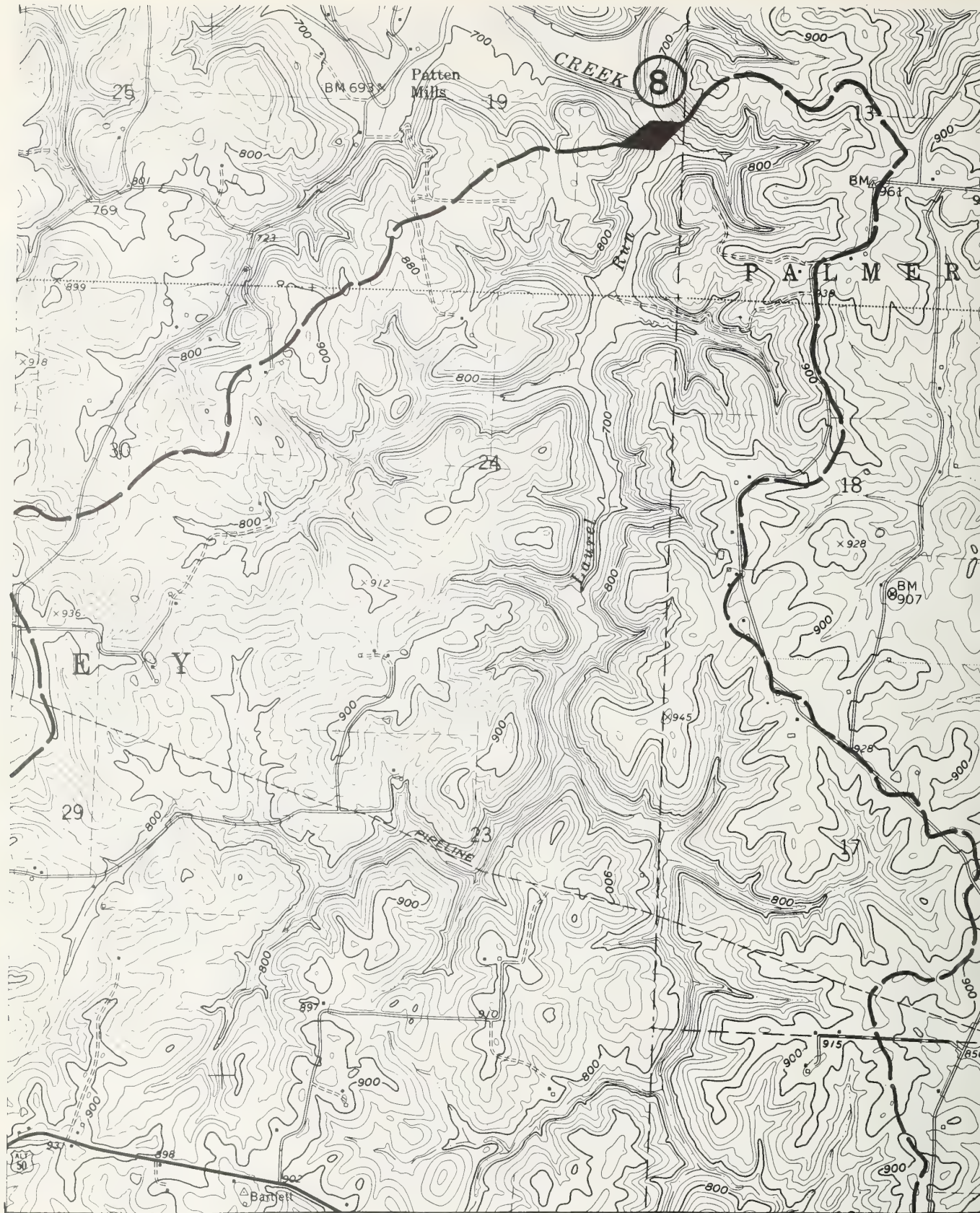
SITE NO. 4 - 4(5)
 SUBWATERSHED WOLF CREEK
 LOCATION CO. MORGAN TWP. MARION
 SEC. 17 SW 1/4 OF SE 1/4
 QUAD. STOCKPORT
 SCALE 1: 24000 C. I. 20 FT. ft.



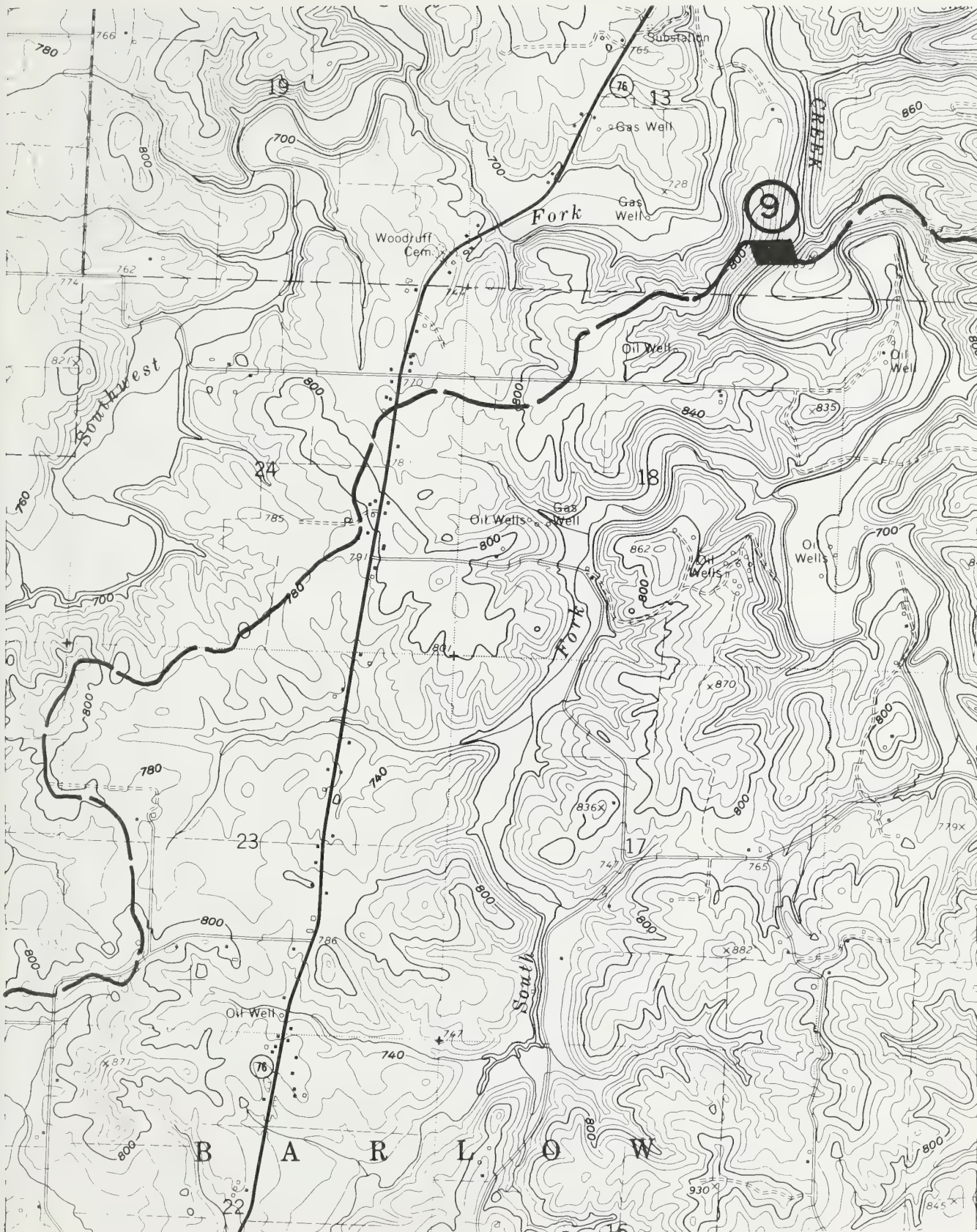
SITE NO. 4-4 (6)
 SUBWATERSHED WOLF CREEK
 LOCATION CO. WASHINGTON TWP. WESLEY
 SEC. 27 NE⁴ OF NW⁴
 QUAD. CHESTERHILL
 SCALE 1:24000 C. I. 20 ft.



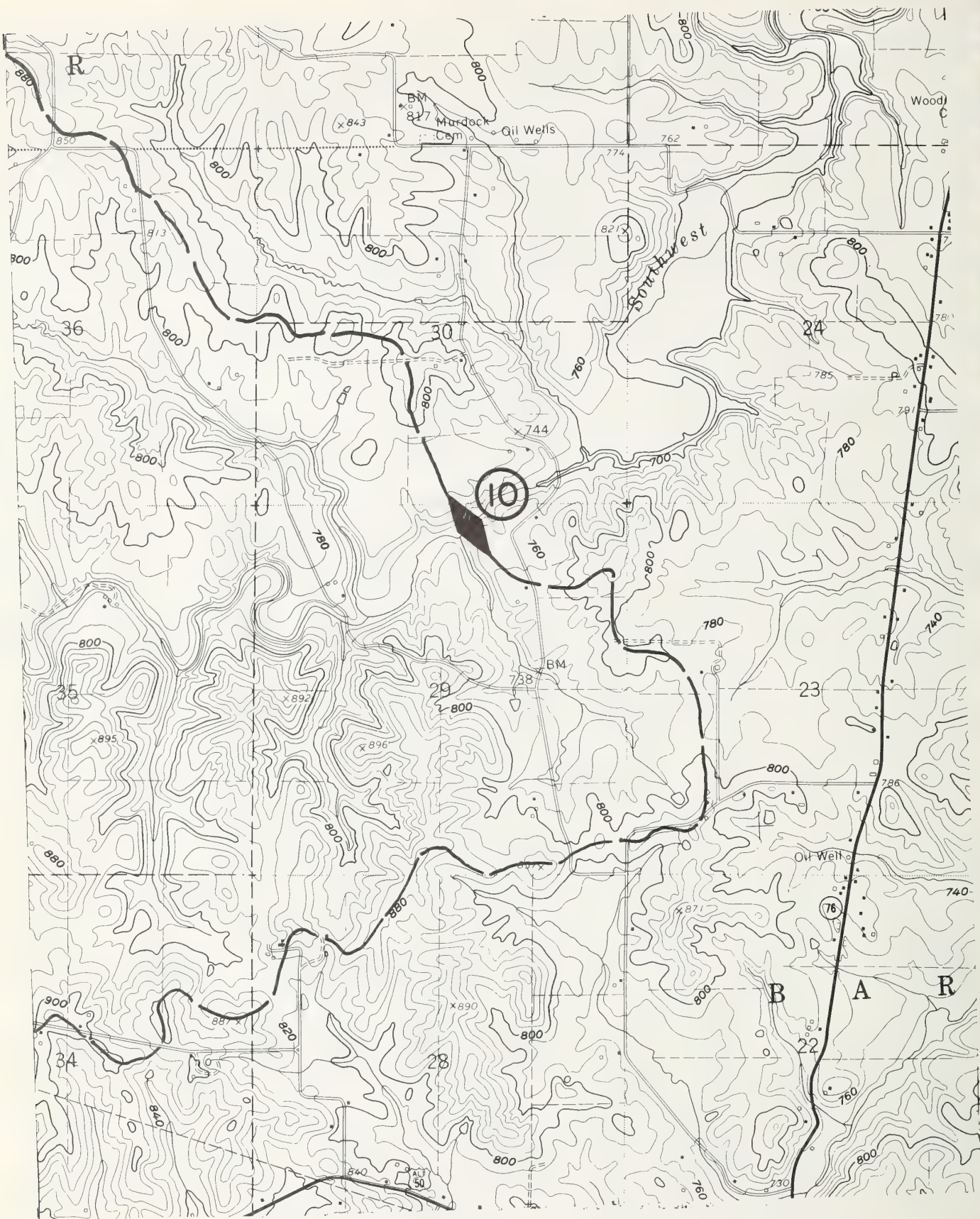
SITE NO. 4-4 (7)
 SUBWATERSHED WOLF CREEK
 LOCATION CO. WASHINGTON TWP. WESLEY
 SEC. 26 SW⁴ OF NE⁴
 QUAD. CHESTERHILL
 SCALE 1:24000 C. I. 20 ft.



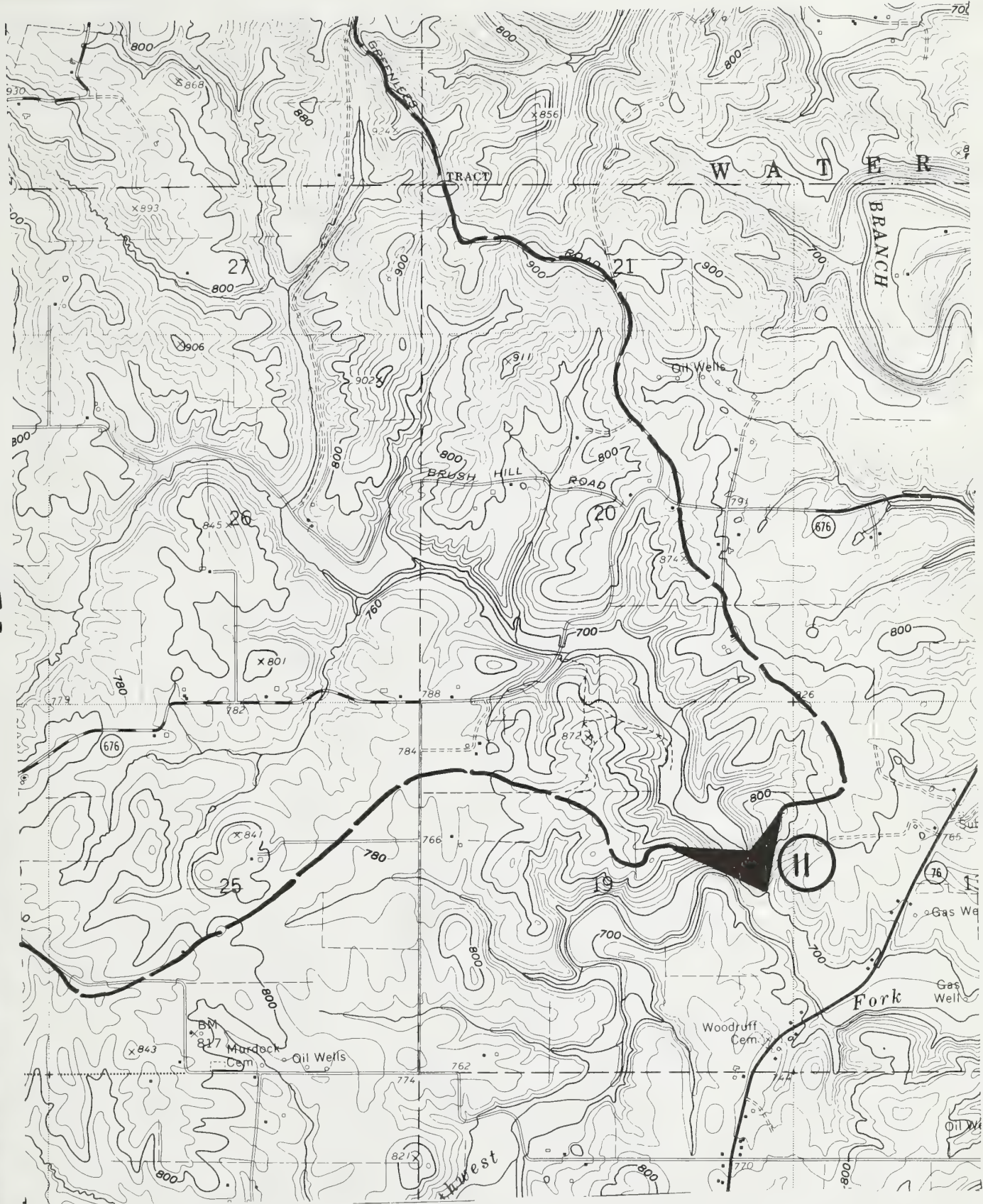
SITE NO. 4-4 (8)
SUBWATERSHED WOLF CREEK
LOCATION CO. WASHINGTON TWP. WESLEY
SEC. 19 NE⁴ OF SE⁴
QUAD. CHESTERHILL
SCALE 1:24000 C. I. 20 ft.



SITE NO. 4-4 (9)
SUBWATERSHED WOLF CREEK
LOCATION CO. WASHINGTON TWP. WATERTOWN
SEC. 13 SE 1/4 OF SE 1/4
QUAD. WATERTOWN
SCALE 1:24000 C.I. 20 FT. ft.

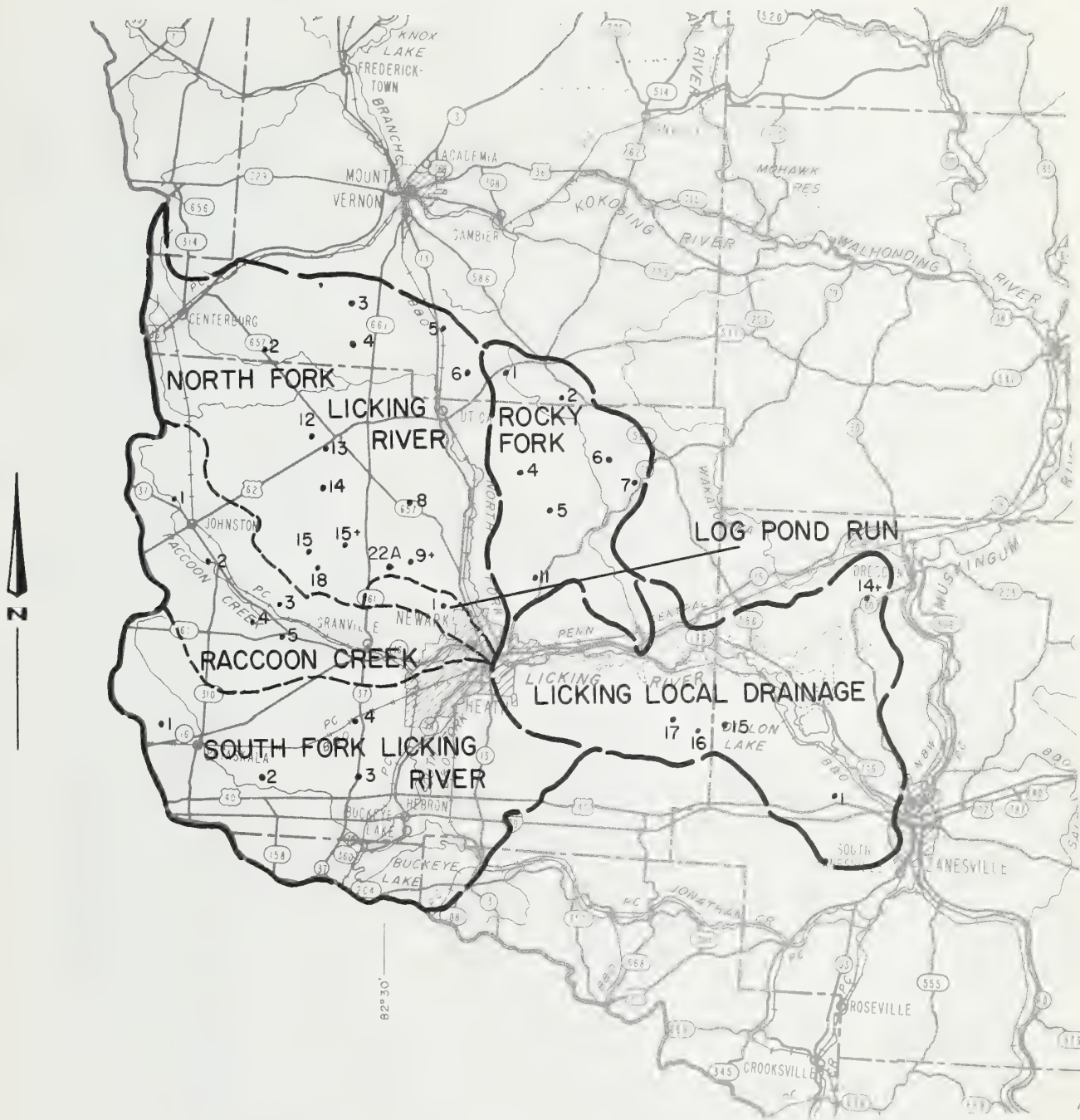


SITE NO. 4-4 (10)
 SUBWATERSHED WOLF CREEK
 LOCATION CO. WASHINGTON TWP. BARLOW
 SEC. 29 NW 1/4 OF NE 1/4
 QUAD. WATERTOWN
 SCALE 1:24000 C.I. 20 FT. ft.



SITE NO. 4-4 (11)
SUBWATERSHED WOLF CREEK
LOCATION CO. WASHINGTON TWP. WATERTOWN
SEC. 19 SE 1/4 OF NE 1/4
QUAD. WATERTOWN
SCALE 1:24000 C.I. 20 FT ft.

**LICKING RIVER
SUB BASIN**



MUSKINGUM RIVER BASIN

LICKING RIVER SUBBASIN

STATE: OHIO

LICKING, FAIRFIELD, PERRY, MUSKINGUM, KNOX COUNTIES

SCALE 1/417,000

[illegible]

[illegible]

POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 3

[illegible]

POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 4

OHIO MUSKINGUM RIVER BASIN										LICKING RIVER SUBBASIN										N-FORK LICKING WSHD									

ELEVATION										STORAGE										FILL									
(FT MSL)										(AC-FT)										* SURFACE									
*HGT *										* (AC) *										* (1000) *									
* (FT) *										* (YDS) *										* (\$1000) *									
*GROSS										* YIELD										* (MGD)									
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POTENTIAL RESERVOIR SITE 1 GN AND COST SUMMARY NO. 1

OHIO MUSKINGUM RIVER BASIN

LICKING RIVER SUBBASIN

ROCKY FORK WSHD

208

SITE ROCKY FORK (1) B DA= 2.46 SQ-MI. ELEV. BOTTOM C/L PROFILE= 1015.0 POTENTIAL USES-FC RE

SITE EAST BRANCH (2)	*	*	B DA=	3.09	SQ.MI.	*	ELEV.	BOTTOM	C/L	PROFILE=	1024.0	POTENTIAL	USES-FC	RE	*												
1035.3	1048.1	1052	1058	*	34	*	109	437	564	*	19	70	*	78	*	185	15	58	55	313	*	555	*				
1052.0	1057.6	1060	1065	*	41	*	700	809	437	1264	*	71	102	*	127	*	275	19	74	70	439	*	348	3409	628	*	0.74
1059.8	1063.6	1065	1070	*	46	*	1359	1468	438	1924	*	100	146	*	166	*	342	23	96	76	536	*	278	3777	394	*	1.17
1065.1	1068.1	1070	1074	*	50	*	2018	2127	439	2584	*	143	180	*	202	*	404	26	115	80	625	*	242	3411	309	*	1.55
1072.6	1075.1	1076	1080	*	56	*	3337	3445	524	3988	*	205	233	*	280	*	531	32	143	96	801	*	201	3265	240	*	1.61

SITE LOST RUN (4)	*	*	B DA=	2.63	SQ.MI.	ELEV.	BOTTOM	C/L	PROFILE=	1035.0	POTENTIAL	USES-FC	RE						
	*	*				*	*	*			*	*							
1048.3	1060.9	1063	1068	33	*	102	362	483	18	67	56	142	13	36	43	234*	485	*	
1064.3	1068.1	1069	1073	38	*	600	702	361	1082	80	127	79	206	16	72	60	354*	328	2448
1069.6	1072.3	1073	1077	42	*	1161	1263	360	1641	131	164	97	248	18	93	67	426*	260	2298
1076.5	1079.0	1079	1082	47	*	2283	2385	501	2905	197	221	134	324	22	125	75	546*	188	2179
1079.1	1081.6	1082	1085	50	*	2844	2946	592	3557	223	258	153	366	24	140	77	608*	171	2183
				*	*					*	*	*						216*	1.36

SITE PLEASANT VALLEY (5)		*	*	B DA=	3.71 SQ.MI.	ELEV.	BOTTOM	C/L	PROFILE=	907.0	POTENTIAL	USES-FC	RE							
		*	*	*	*	*	*	*	*	*	*	*	*							
919.0	933.0	935	942	35	125	565	711	20	70	94	211	17	93	61	381	536	*			
937.3	943.6	945	952	45	900	1025	565	1612	79	107	157	332	22	154	75	583	362	4142	648	0.93
945.6	950.6	952	957	50	1691	1816	565	2403	110	134	209	415	26	185	81	707	294	4540	418	1.44
952.1	956.3	957	962	55	2483	2607	566	3196	136	155	259	492	30	206	89	817	256	4683	329	1.90
962.1	965.3	966	970	63	4066	4190	566	4778	180	203	355	638	38	249	115	1040	218	4925	250	1.94
		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

FC FLOOD CONTROL	LF LOW FLOW AUGMENTATION	SD SEDIMENT CONTROL	WS WATER SUPPLY	PRICE BASE YEAR 1970
FW FISH AND WILDLIFE	LL LAKE LEVEL REGULATION	WQ WATER QUALITY CONTROL	WS WATER SUPPLY	
IR IRRIGATION	RE RECREATION			

ALL DATA BASED ON PRELIMINARY RESERVOIR LOCATIONS.

POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 2

OHIO MUSKINGUM RIVER BASIN										LICKING RIVER SUBBASIN										ROCKY FORK WSHD									

POTENTIAL RESERVOIR SITE L. GN AND COST SUMMARY NO. 1

OHIO MUSKINGUM RIVER BASIN

LICKING RIVER SUBBASIN

RACCOON WSHD.

ELEVATION (FT MSL)	*HGT *DAM (FT)*	*STORAGE (AC-FT)	*SURFACE *AREA (AC)	*FILL *(1000 *YDS)*	*INSTALLATION COST *(\$1000)	*UNIT COST *(\$ PER *MGD)	*GROSS *YIELD *(MGD)
NORM EMERG DSGN TOP *MAX * BEN NORM TEMP TOTAL *NORM DSGN* VOL *CONST ENGR L/R PROJ TOTAL AC-FT ACRE AC-FT* FOR							
POOL SPWY HIGH OF *HGT * USE POOL FLOOD E-S. * POOL HIGH* CREST *							
*COST WATER DAM *							
*STORE BEN BEN * 2							
ALLOC ALLOC STORE P.C.*							

SITE UPPER RACCOON (1)	*C DA= 8.89 SQ.MI. ELEV. BOTTOM C/L PROFILE= 1077.0	POTENTIAL USES-FC RE	
1092.0 1100.6 1104 1110 * 33 *	427 1517 1991 * 100 361 * 96 *	220 17 306 62 605*	304 *
1103.6 1107.5 1110 1115 * 38 *	2448 2875 1517 4440 * 348 526 * 134 *	292 20 449 72 832*	187 1320 340* 2.40

SITE LOWER JOHNSTOWN (2)	*C DA= 21.94 SQ.MI. ELEV. BOTTOM C/L PROFILE= 1032.0	POTENTIAL USES-FC	BY JAS 11-
1047.6 1057.0 1060 1066 * 34 *	1053 3300 4471 * 218 613 * 213 *	456 28 544 85 1112*	249 *
1057.1 1062.9 1066 1073 * 41 *	3500 4553 3354 8024 * 515 776 * 336 *	776 47 657 140 1620*	202 1373 463* 4.14
1060.6 1065.6 1068 1073 * 41 *	5506 6559 3354 10030 * 621 831 * 334 *	801 48 693 144 1686*	168 1492 306* 5.59

SITE LOBDELL (3)	*C DA= 17.77 SQ.MI. ELEV. BOTTOM C/L PROFILE= 957.0	POTENTIAL USES-FC RE	
996.4 1021.4 1025 1029 * 72 *	853 3033 3980 * 64 218 * 313 *	592 36 116 107 850*	213 *
1005.9 1025.3 1029 1033 * 76 *	800 1653 3033 4780 * 108 244 * 365 *	679 41 127 122 969*	203 1501 1211* 1.51
1011.5 1028.3 1032 1036 * 79 *	1511 2364 3033 5491 * 141 287 * 413 *	754 45 145 136 1079*	197 2110 714* 2.26
1016.3 1031.0 1035 1039 * 82 *	2222 3074 3033 6202 * 164 338 * 458 *	824 49 165 148 1188*	192 2589 535* 2.86

SITE SIMPSON RUN (4)	*B DA= 2.39 SQ.MI. ELEV. BOTTOM C/L PROFILE= 978.0	POTENTIAL USES-FC	
997.3 1014.6 1016 1020 * 42 *	115 397 525 * 15 36 * 86 *	190 16 26 56 287*	547 *
1003.0 1005.5 1008 1011 * 33 *	100 215 41 269 * 20 25 * 49 *	155 14 18 46 233*	866 4225 2325* 0.18
1008.5 1011.0 1014 1017 * 39 *	227 342 56 411 * 26 32 * 71 *	191 16 23 56 286*	697 6120 1258* 0.32
1009.5 1012.0 1015 1018 * 40 *	254 368 59 440 * 27 33 * 76 *	199 16 24 58 297*	674 6346 1170* 0.34

FC FLOOD CONTROL	LF LOW FLOW AUGMENTATION	SD SEDIMENT CONTROL	WS WATER SUPPLY	PRICE BASE YEAR 1970
FW FISH AND WILDLIFE	LL LAKE LEVEL REGULATION	WQ WATER QUALITY CONTROL	WS WATER SUPPLY	
IR IRRIGATION	RE RECREATION	WS WATER SUPPLY		

POTENTIAL USE ABBREVIATIONS

ALL DATA BASED ON PRELIMINARY

RESERVOIR LOCATIONS.

POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 2

OHIO MUSKINGUM RIVER BASIN										LICKING RIVER SUBBASIN										RACCOON WSHD									

LOG POND RUN WSHD

	IR	IRRIGATION	RE	RECREATION	WS	WATER SUPPLY	PRICE BASE YEAR 1970
IR							
IRRIGATION							
RE							
RECREATION							
WS							
WATER SUPPLY							

POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 1

OHIO MUSKINGUM RIVER BASIN			LICKING RIVER SUBBASIN			S.FORK LICKING WSHD		
ELEVATION (FT MSL)	*HGT *DAM (FT)	*STORAGE (AC-FT)	*SURFACE (AC)	*FILL (YDS)	*INSTALLATION COST (\$1000)	*UNIT COST (\$)	*GROSS *YIELD (MGD)	
NORM EMERG DSGN TOP *MAX * BEN NORM TEMP TOTAL * NORM DSGN * VOL *CONST ENGR L/R PROJ TOTAL AC-FT ACRE AC-FT FOR								
POOL SPWY HIGH OF *HGT * USE POOL FLOOD E.S. * POOL HIGH * ADM *STORE BEN BEN * 2								
CREST WATER DAM * CREST * WTR * ALLOC ALLOC STORE * P.C.								
SITE UPPER S.FORK & BIG HOLLOW(1) C DA= 10.90 SQ.MI. ELEV. BOTTOM C/L PROFILE= 1059.0 POTENTIAL USES-FC								
1078.6 1089.1 1093 1099 * 40 *		436 1862 2356 *	79 366 *	302 *	564 34 199 102 898 *	381		
SITE KIRKERSVILLE (2) B DA= 4.27 SQ.MI. ELEV. BOTTOM C/L PROFILE= 939.0 POTENTIAL USES-FC								
959.0 972.5 974 981 * 42 *		205 756 984 *	29 112 *	245 *	452 28 55 84 618 *	629		
963.9 966.4 969 972 * 33 *		385 108 516 *	47 74 *	108 *	289 20 39 72 419 *	813	3142	2330 * 0.34
970.9 973.4 975 978 * 39 *		840 210 1073 *	85 117 *	191 *	455 28 61 84 629 *	586	4355	990 * 0.75
SITE BELL BEAVER (3) B DA= 7.36 SQ.MI. ELEV. BOTTOM C/L PROFILE= 885.0 POTENTIAL USES-FC								
906.0 917.8 919 922 * 37 *		353 1138 1531 *	45 300 *	159 *	339 23 198 75 635 *	415		
SITE RAMP CREEK (4) B DA= 5.35 SQ.MI. ELEV. BOTTOM C/L PROFILE= 952.0 POTENTIAL USES-FC								
976.6 991.4 994 999 * 47 *		257 842 1127 *	35 99 *	49 *	140 13 100 42 294 *	261		
981.5 984.0 987 990 * 38 *		457 105 590 *	51 67 *	29 *	183 15 77 54 329 *	557	2203	1644 * 0.40
989.5 992.0 995 998 * 46 *		707 964 188 1180 *	79 103 *	45 *	199 16 102 58 375 *	318	2858	531 * 0.87
POTENTIAL USE ABBREVIATIONS								
FC FLOOD CONTROL	LF LOW FLOW AUGMENTATION	SD SEDIMENT CONTROL	ALL DATA BASED ON PRELIMINARY					
FW FISH AND WILDLIFE	LL LAKE LEVEL REGULATION	WQ WATER QUALITY CONTROL	RESERVOIR LOCATIONS.					
IR IRRIGATION	RE RECREATION	WS WATER SUPPLY	PRICE BASE YEAR 1970					

POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 1

OHIO MUSKINGUM RIVER BASIN

LICKING RIVER SUBBASIN

LOCAL DR. LICKING WSHD

ELEVATION (FT MSL)	*HGT *	*STORAGE (AC-FT)	*SURFACE (AC)	*AREA (AC)	*FILL (1000* YDS)	*INSTALLATION COST *	*UNIT COST *	*GROSS YIELD *(MGD)
	*DAM *(FI)*							
NORM EMERG DSGN TOP *MAX *	BEN NORM TEMP TOTAL *	NORM DSGN VOL *	CONST ENGR L/R PROJ TOTAL AC-FT	ACRE	AC-FT	FOR		
POOL SPHY HIGH OF *HGT * USE *	POOL FLOOD E.S. *	POOL HIGH* CREST *	WTR *				*STORE BEN 2	
							ALLOC ALLOC STORE	P.C.

SITE WILLIAMS CEM (1)	*B DA= 2.26 SQ.MI.	ELEV. BOTTOM C/L PROFILE= 767.0	POTENTIAL USES-FC RE
783.8 810.5 811 817 * 50 *	78 605 696 * 10 39 * 80 *	188 15 20 55 279*	401 *
807.4 821.5 822 827 * 60 *	500 578 620 1212 * 35 55 * 134 *	300 20 30 73 423*	349 *
818.7 829.5 830 835 * 68 *	982 1060 627 1701 * 51 67 * 185 *	393 25 38 79 535*	314 *
827.0 836.3 836 841 * 74 *	1464 1543 631 2187 * 63 78 * 239 *	482 29 45 88 643*	294 *
840.1 847.0 847 851 * 84 *	2428 2507 632 3152 * 84 103 * 344 *	651 39 57 117 864*	274 *
			7904 356* 1.15

SITE BIG RUN (14+)	*B DA= 3.17 SQ.MI.	ELEV. BOTTOM C/L PROFILE= 811.0	POTENTIAL USES-FC RE
821.5 832.0 834 841 * 30 *	101 453 573 * 22 78 * 62 *	156 14 39 47 255*	445 *
836.1 841.0 842 848 * 37 *	800 901 456 1376 * 88 118 * 100 *	230 17 70 64 380*	276 *
842.6 846.4 847 852 * 41 *	1476 1578 459 2055 * 120 147 * 129 *	283 20 87 71 460*	224 *
847.8 850.8 852 856 * 45 *	2152 2254 460 2733 * 149 171 * 159 *	337 22 100 75 534*	195 *
855.6 858.1 859 863 * 52 *	3505 3606 489 4114 * 194 212 * 224 *	448 27 118 84 677*	165 *
			2972 193* 1.63

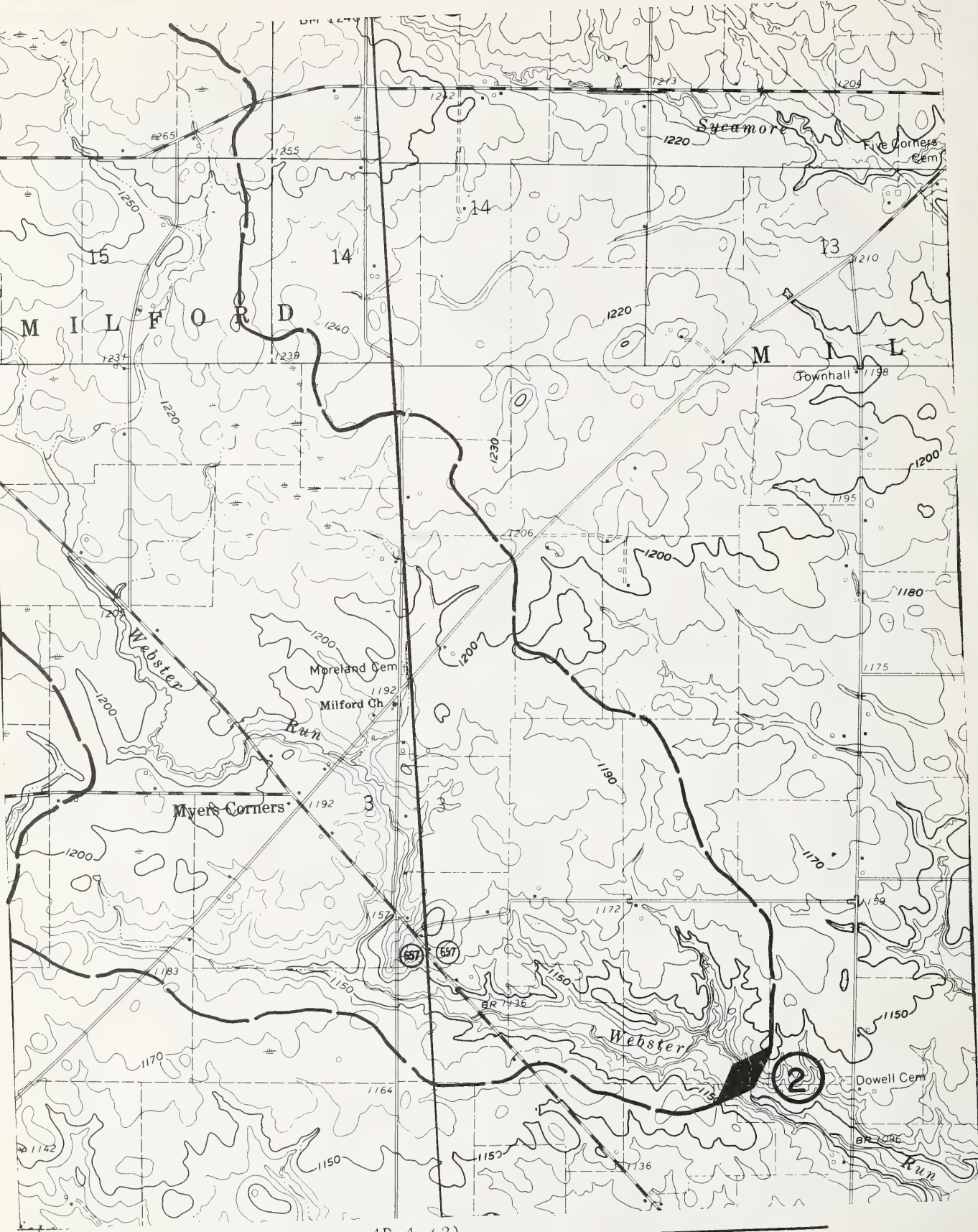
SITE COTTAGE HILL (15)	*B DA= 0.98 SQ.MI.	ELEV. BOTTOM C/L PROFILE= 876.0	POTENTIAL USES-FC RE
889.6 898.5 901 906 * 30 *	44 86 138 * 8 16 * 51 *	132 12 10 40 194*	1405 *
907.3 910.8 913 917 * 41 *	260 304 89 401 * 25 32 * 106 *	238 18 20 65 340*	849 *
914.3 917.0 919 922 * 46 *	469 513 91 612 * 34 40 * 146 *	307 21 26 73 427*	698 *
919.9 922.4 924 927 * 51 *	678 722 115 844 * 42 51 * 184 *	372 24 32 78 505*	599 *
927.8 930.3 931 934 * 58 *	1096 1140 148 1296 * 62 69 * 251 *	477 29 40 87 632*	488 *
			8680 577* 0.48

SITE MIDDLE BR. BRUSH FORK (16)	*B DA= 2.22 SQ.MI.	ELEV. BOTTOM C/L PROFILE= 836.0	POTENTIAL USES-FC RE
848.0 860.5 863 869 * 33 *	77 297 388 * 15 42 * 51 *	142 13 21 42 217*	560 *
864.5 870.4 872 877 * 41 *	500 577 297 888 * 48 69 * 92 *	236 18 35 65 353*	398 *
872.9 876.8 878 883 * 47 *	974 1051 296 1360 * 72 87 * 127 *	310 21 44 73 448*	330 *
878.8 881.8 883 887 * 51 *	1447 1524 294 1833 * 89 103 * 162 *	383 25 52 78 538*	294 *
887.5 890.3 891 895 * 59 *	2394 2471 292 2778 * 120 132 * 231 *	508 31 65 92 695*	250 *
			5004 290* 1.12

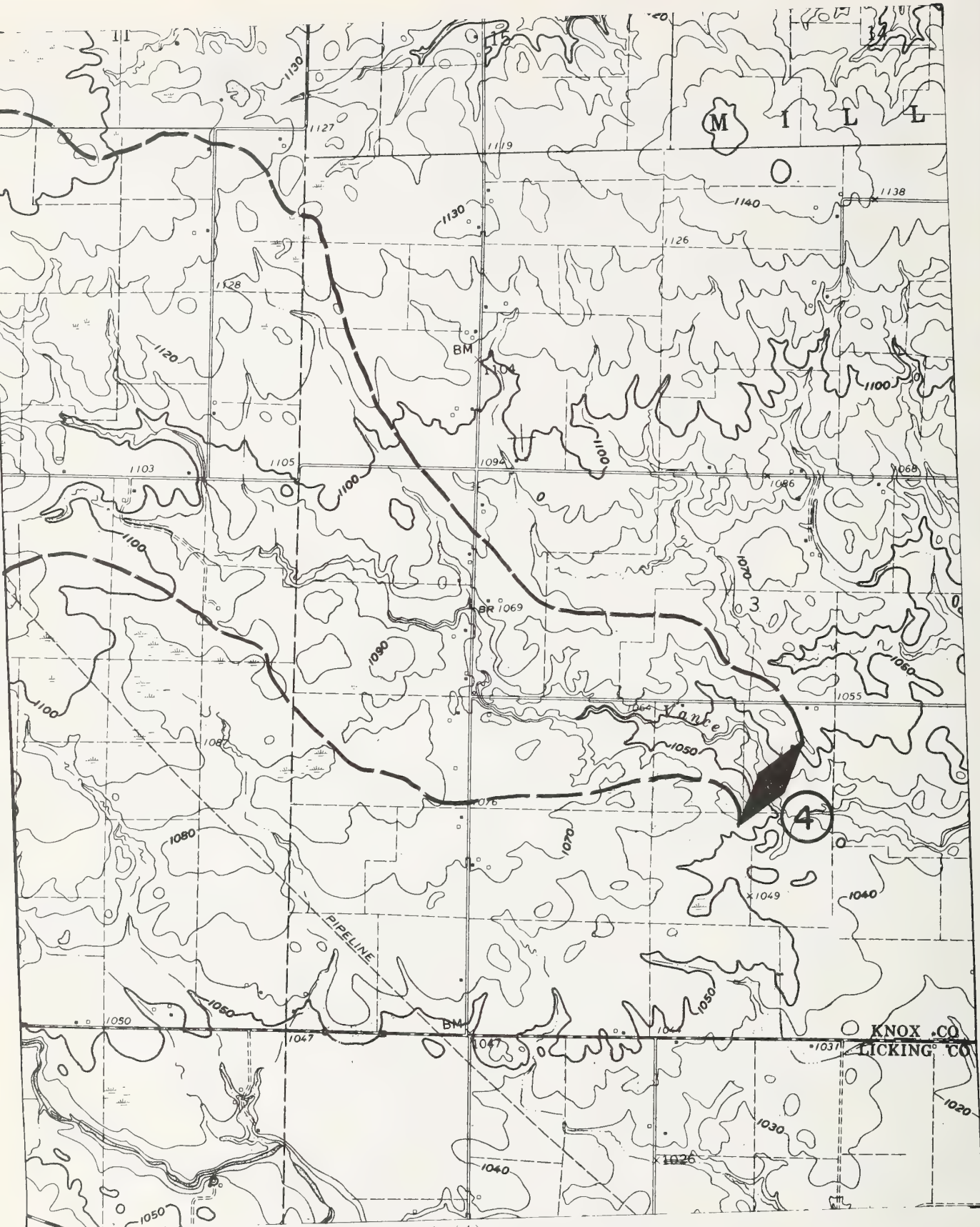
FC FLOOD CONTROL	LF LOW FLOW AUGMENTATION	SD SEDIMENT CONTROL	ALL DATA BASED ON PRELIMINARY
FW FISH AND WILDLIFE	LL LAKE LEVEL REGULATION	WQ WATER QUALITY CONTROL	RESERVOIR LOCATIONS.
IR IRRIGATION	RE RECREATION	WS WATER SUPPLY	PRICE BASE YEAR 1970

POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 2

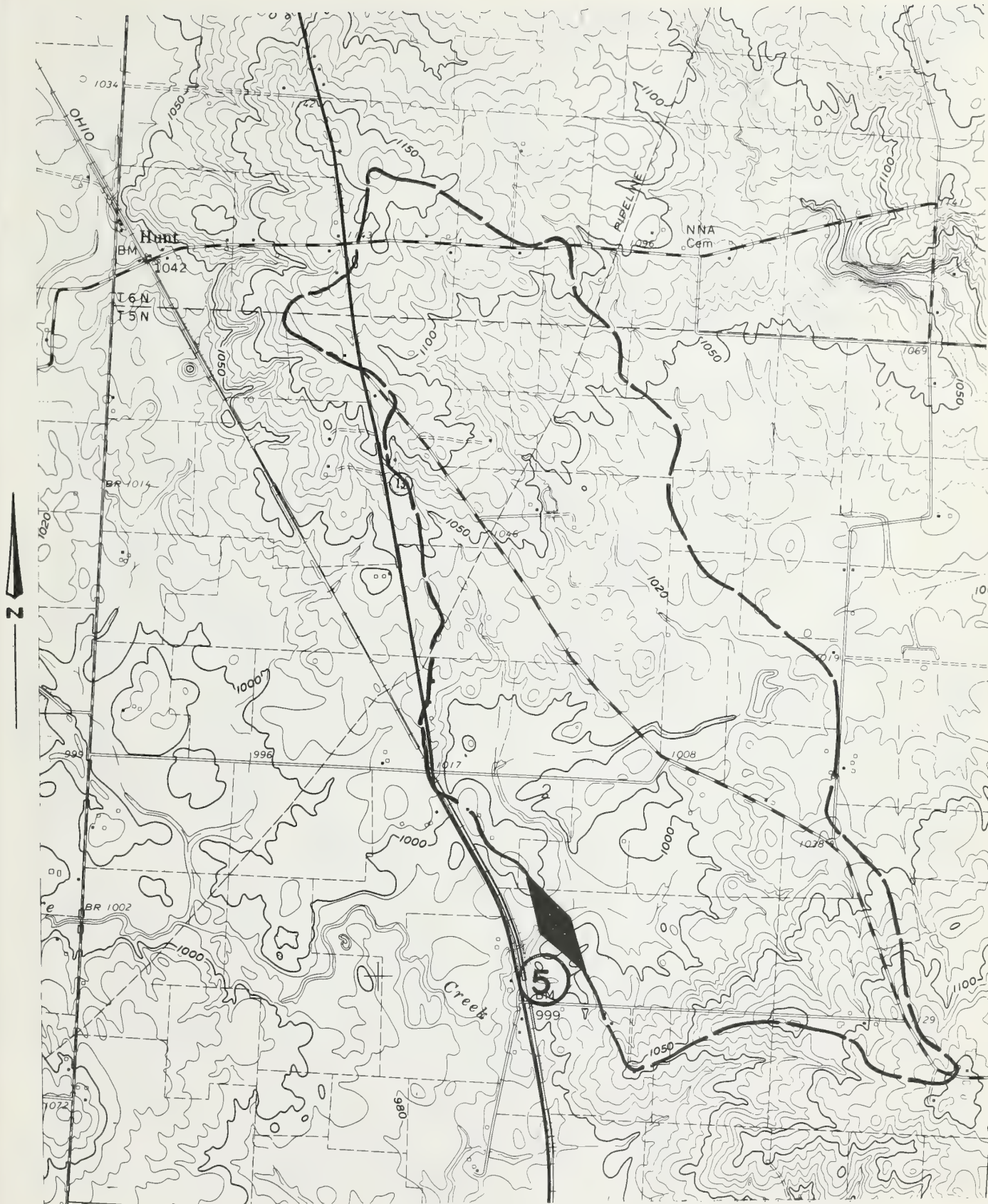
OHIO MUSKINGUM RIVER BASIN										LICKING RIVER SUBBASIN										LOCAL DR. LICKING WSHD									



SITE NO. 4D-4 (2)
 SUBWATERSHED LICKING RIVER (NORTH FORK)
 LOCATION CO. KNOX TWP. MILFORD
 SEC. LOT 3 SE⁴ OF SE⁴
 QUAD. HOMER
 SCALE 1:24000 C.I. 10 ft.



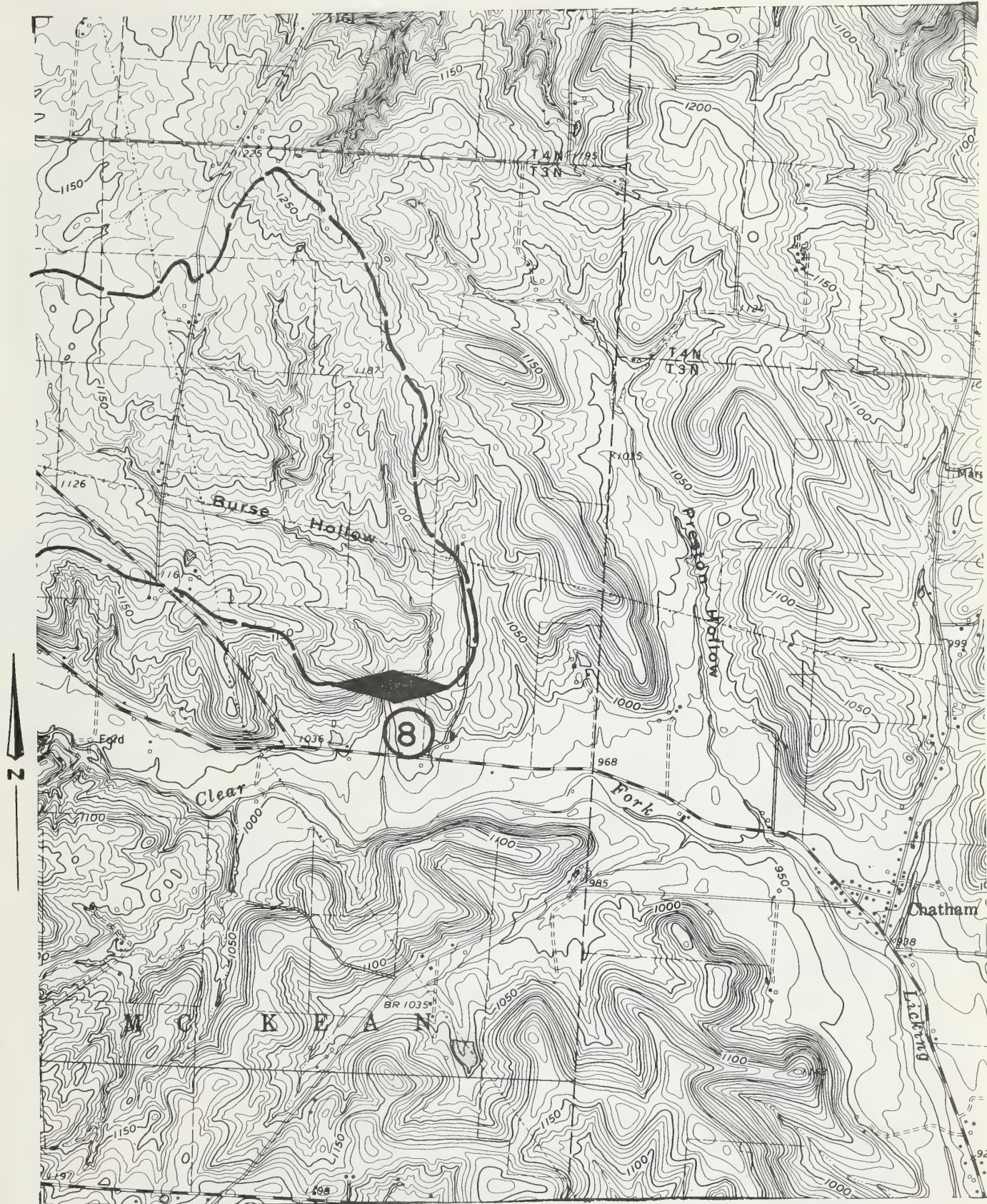
SITE NO. 4D-4 (4)
 SUBWATERSHED LICKING RIVER (NORTH FORK)
 LOCATION CO. KNOX TWP. MILLER
 SEC. LOT 3 NW⁴ OF SE⁴
 QUAD. HOMER
 SCALE 1:24000 C.I. 10 ft.



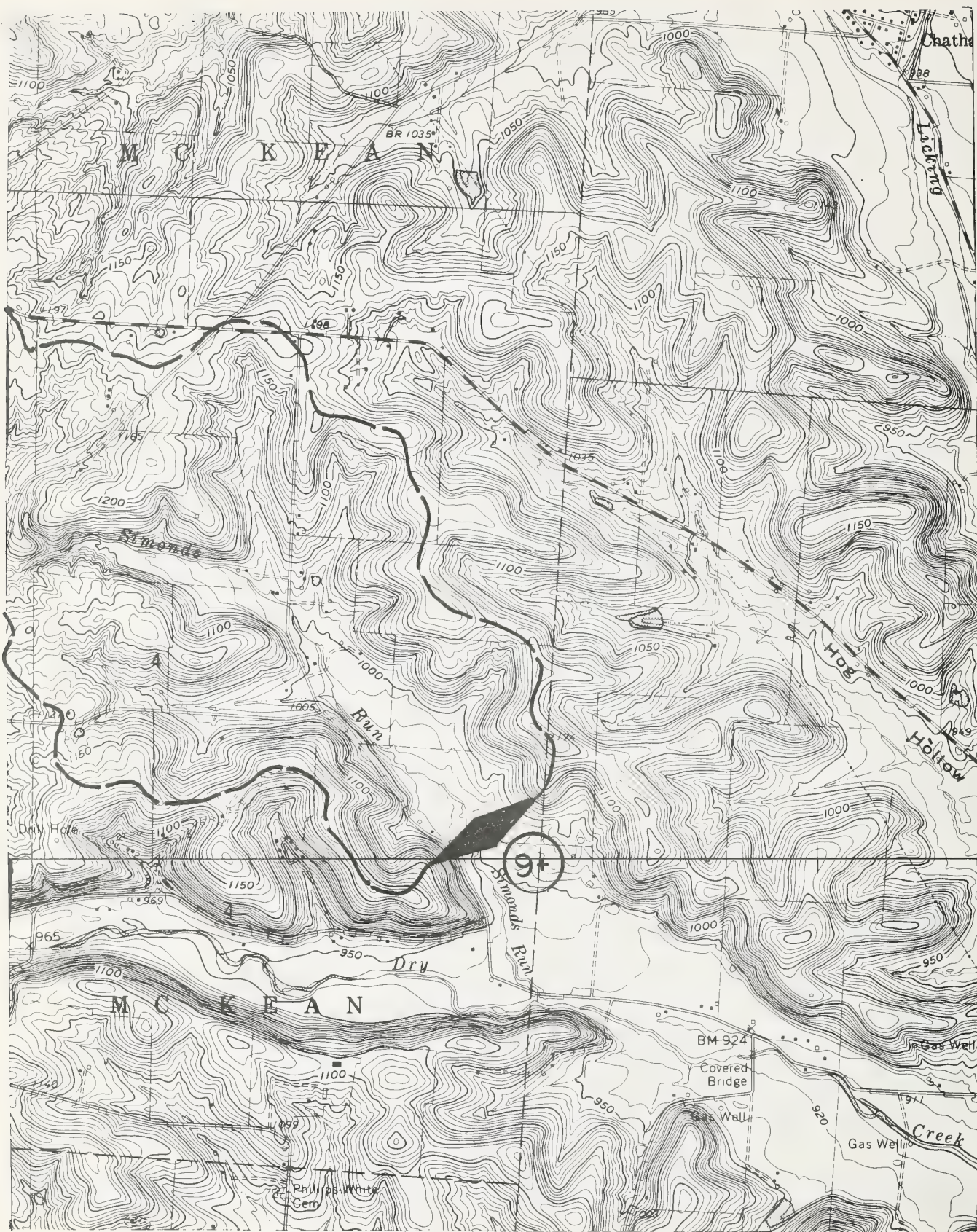
SITE NO. 4D-4 (5)
SUBWATERSHED LICKING RIVER (NORTH FORK)
LOCATION CO. KNOX TWP. MORGAN
SEC. LOT 2 NW⁴ OF SE⁴
QUAD. HUNT
SCALE 1:24000 C. I. 10 ft.



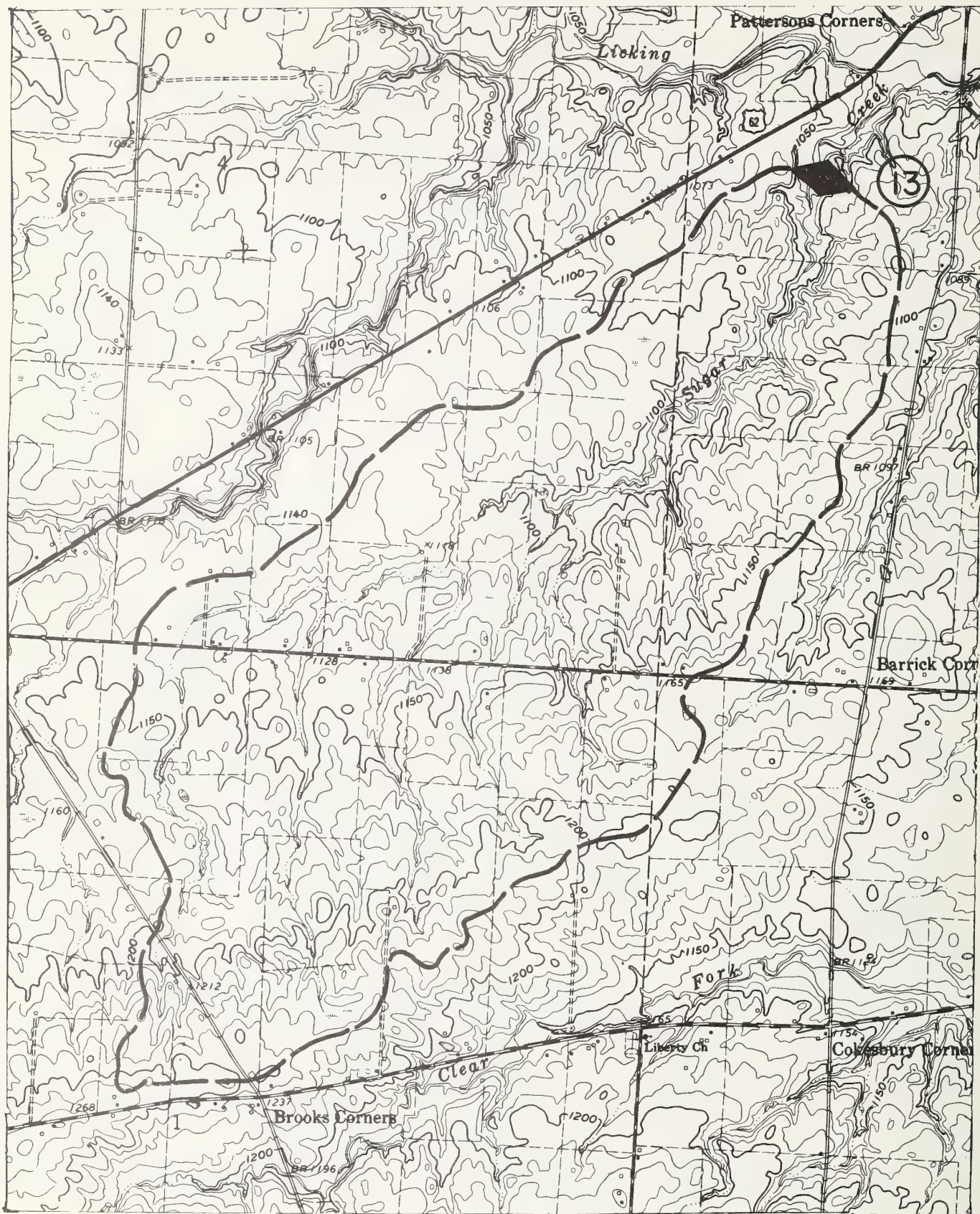
SITE NO. 4D-4 (6)
SUBWATERSHED LICKING RIVER (NORTH FORK)
LOCATION CO. KNOX TWP. MORGAN
SEC. LOT 3 SW⁴ OF NW⁴
QUAD. HUNT
SCALE 1:24000 C.I. 10 ft.



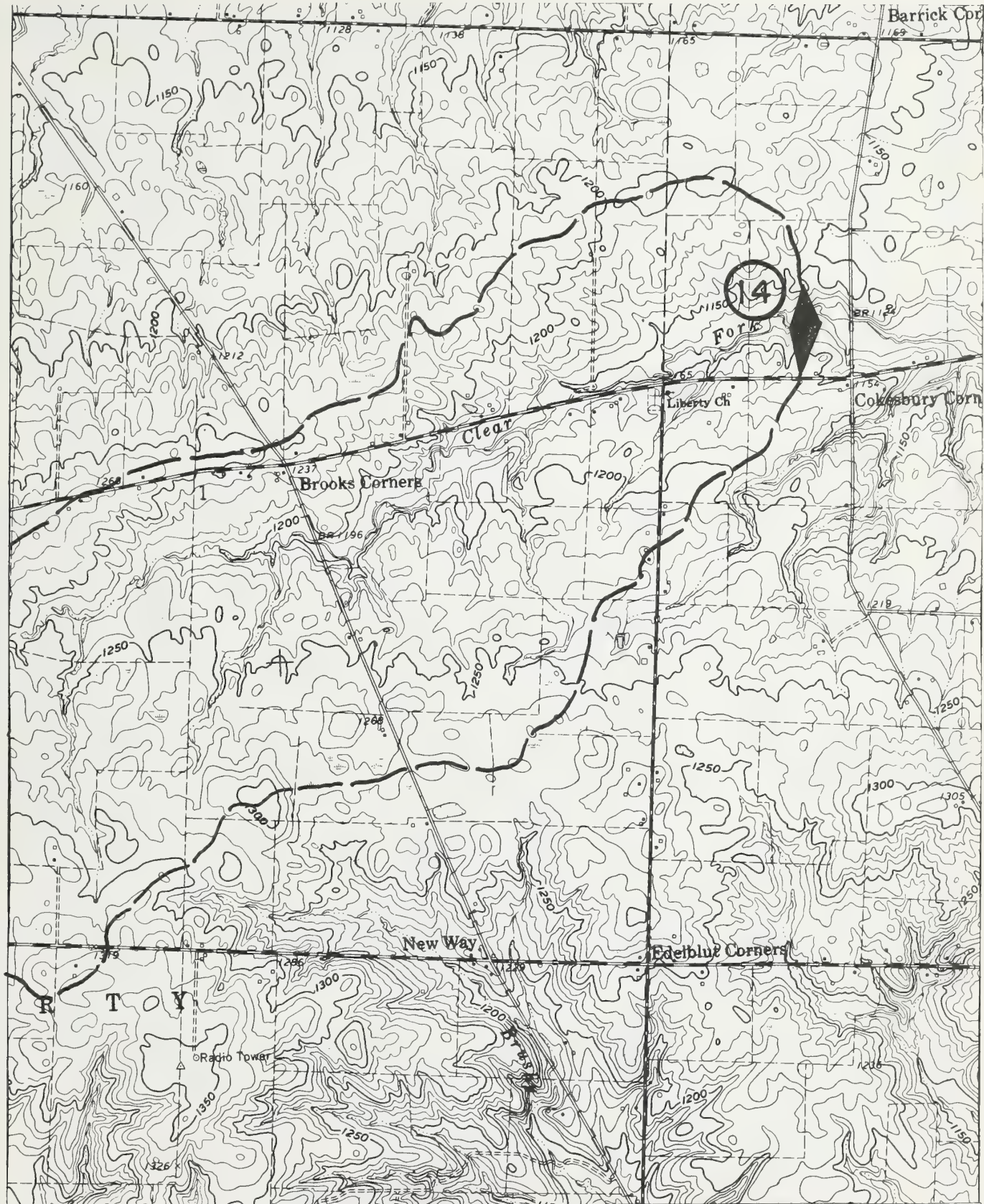
SITE NO. 4D-4 (8)
 SUBWATERSHED LICKING RIVER (NORTH FORK)
 LOCATION CO. LICKING TWP. Mc Kean
 SEC. LOT 1 NW⁴ OF SE⁴
 QUAD. UTICA
 SCALE 1:24000 C.I. 10 ft.



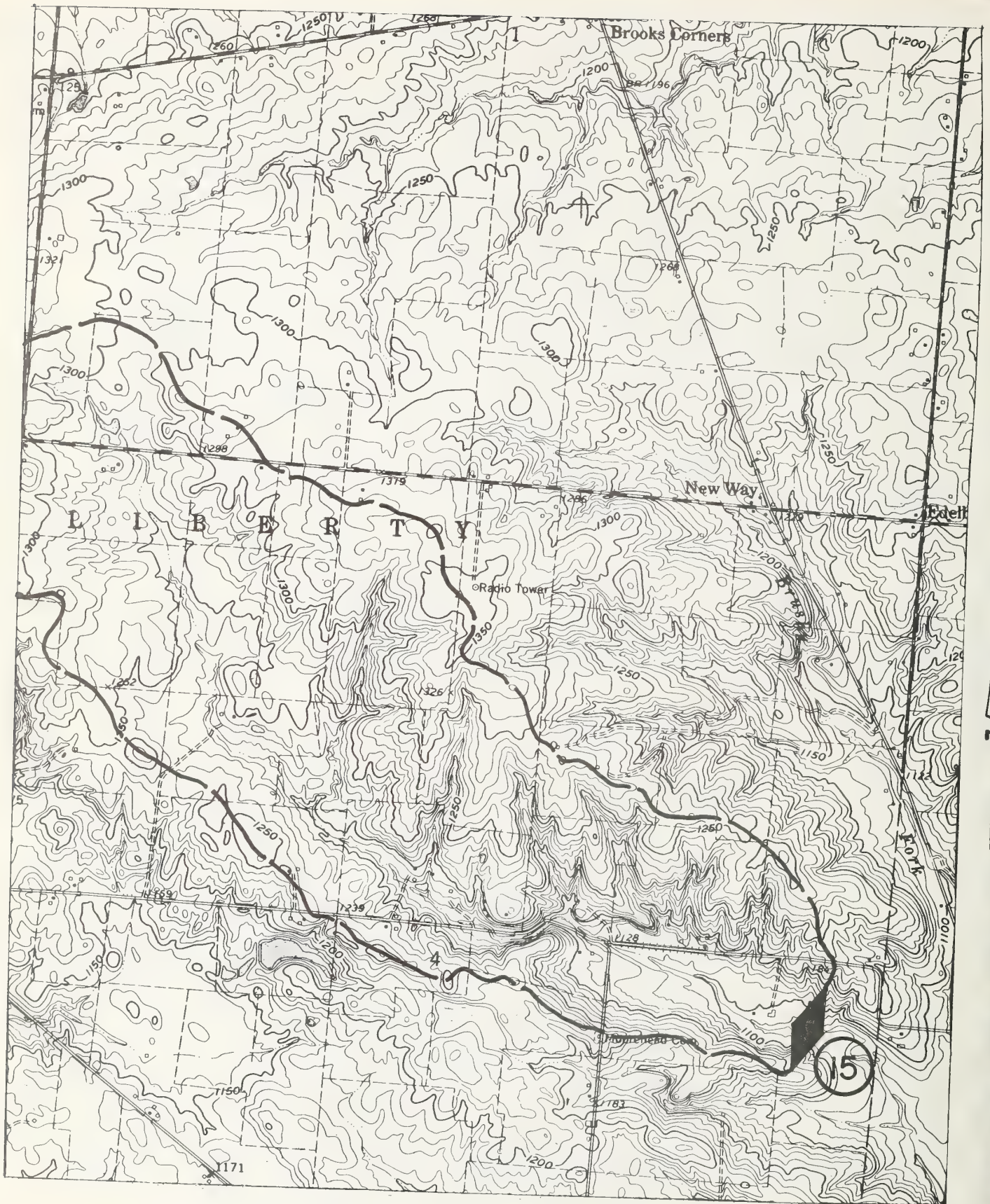
SITE NO. 4D-4 (9+)
 SUBWATERSHED LICKING (NORTH FORK)
 LOCATION CO. LICKING TWP. McKEAN
 SEC. LOT 4 NE¹ OF SE¹
 QUAD. UTICA
 SCALE 1:24000 C. I. 10 ft.



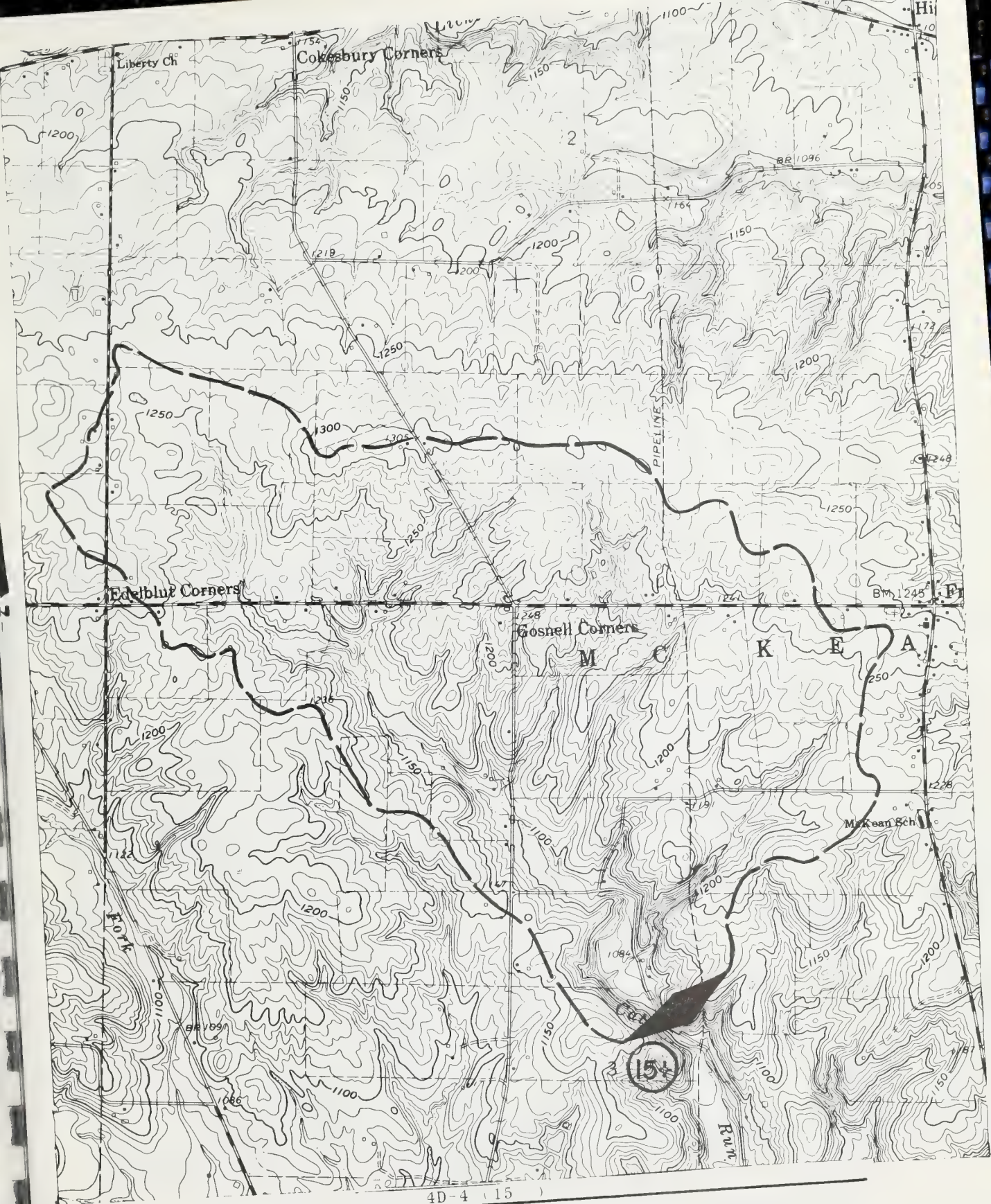
SITE NO. 4D-4 (13)
 SUBWATERSHED LICKING RIVER (NORTH FORK)
 LOCATION CO. LICKING TWP. BURLINGTON
 SEC. LOT 3 SW⁴ OF NW⁴
 QUAD. FREDONIA
 SCALE 1:24000 C.I. 10 ft.



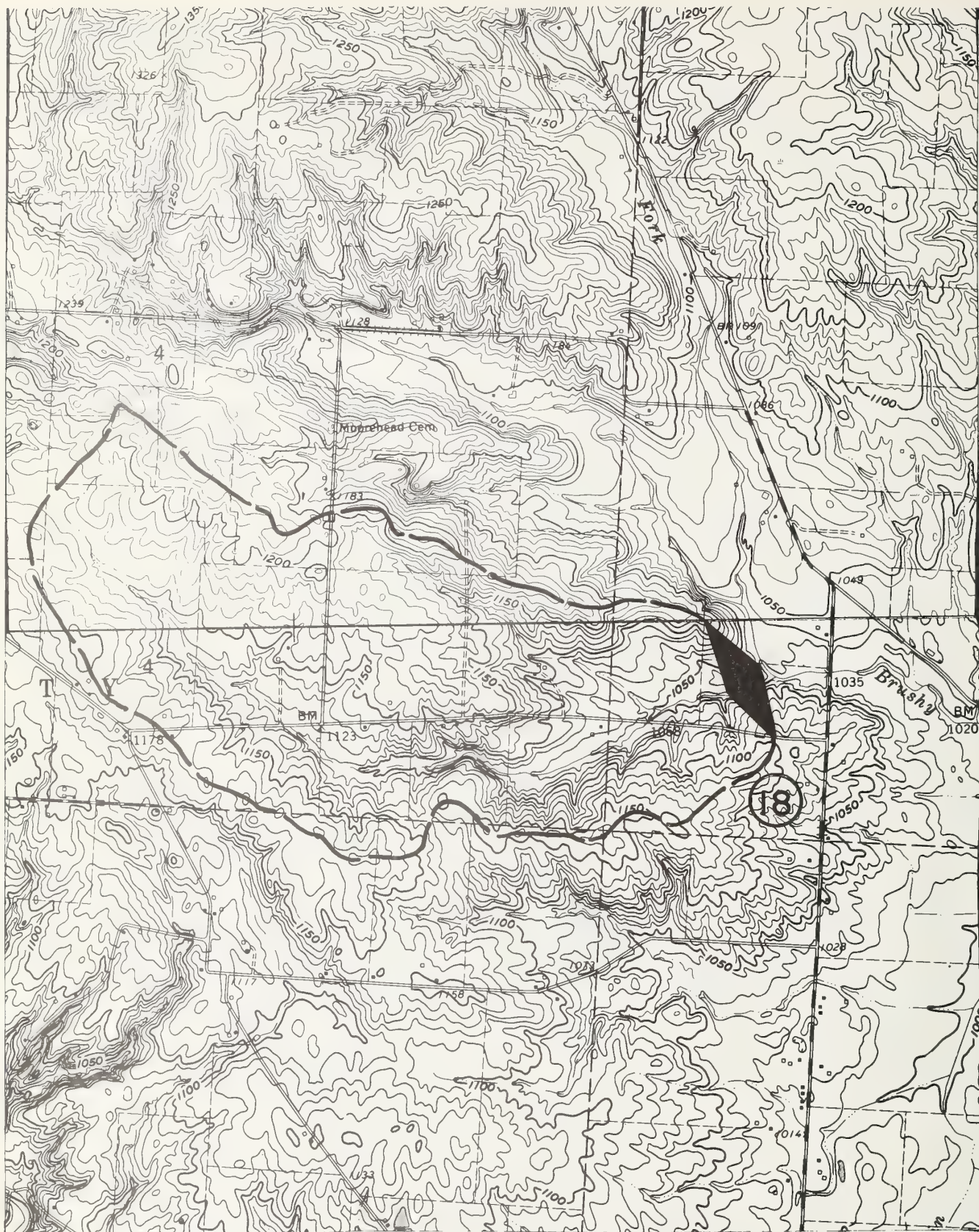
SITE NO. 4D-4 (14)
 SUBWATERSHED LICKING RIVER (NORTH FORK)
 LOCATION CO. LICKING TWP. McKEAN
 SEC. LOT 2 SW⁴ OF NW⁴
 QUAD. FREDONIA
 SCALE 1:24000 C.I. 10 ft.



SITE NO. 4D-4 (15)
SUBWATERSHED LICKING R. (N FORK)
LOCATION CO. LICKING TWP. LIBERTY
SEC. LOT 4 NE 1/4 OF NE 1/4
QUAD. FREDONIA
SCALE 1:24000 C.I. 10 FT. ft.



SITE NO. 4D-4 (15)
 SUBWATERSHED LICKING (NORTH FORK)
 LOCATION CO. LICKING TWP. Mc KEAN
 SEC LOT 3 SW⁴ OF NE⁴
 QUAD. FREDONIA
 SCALE 1:24000 C.I. 10 ft.



SITE NO. 4D-4 (18)
 SUBWATERSHED LICKING (NORTH FORK)
 LOCATION CO. LICKING TWP. Mc KEAN
 SEC. LOT 3 SW⁴ OF SW⁴
 QUAD. GRANVILLE
 SCALE 1: 24000 C. I. 10 ft.



SITE NO. 4D-4 (22A)

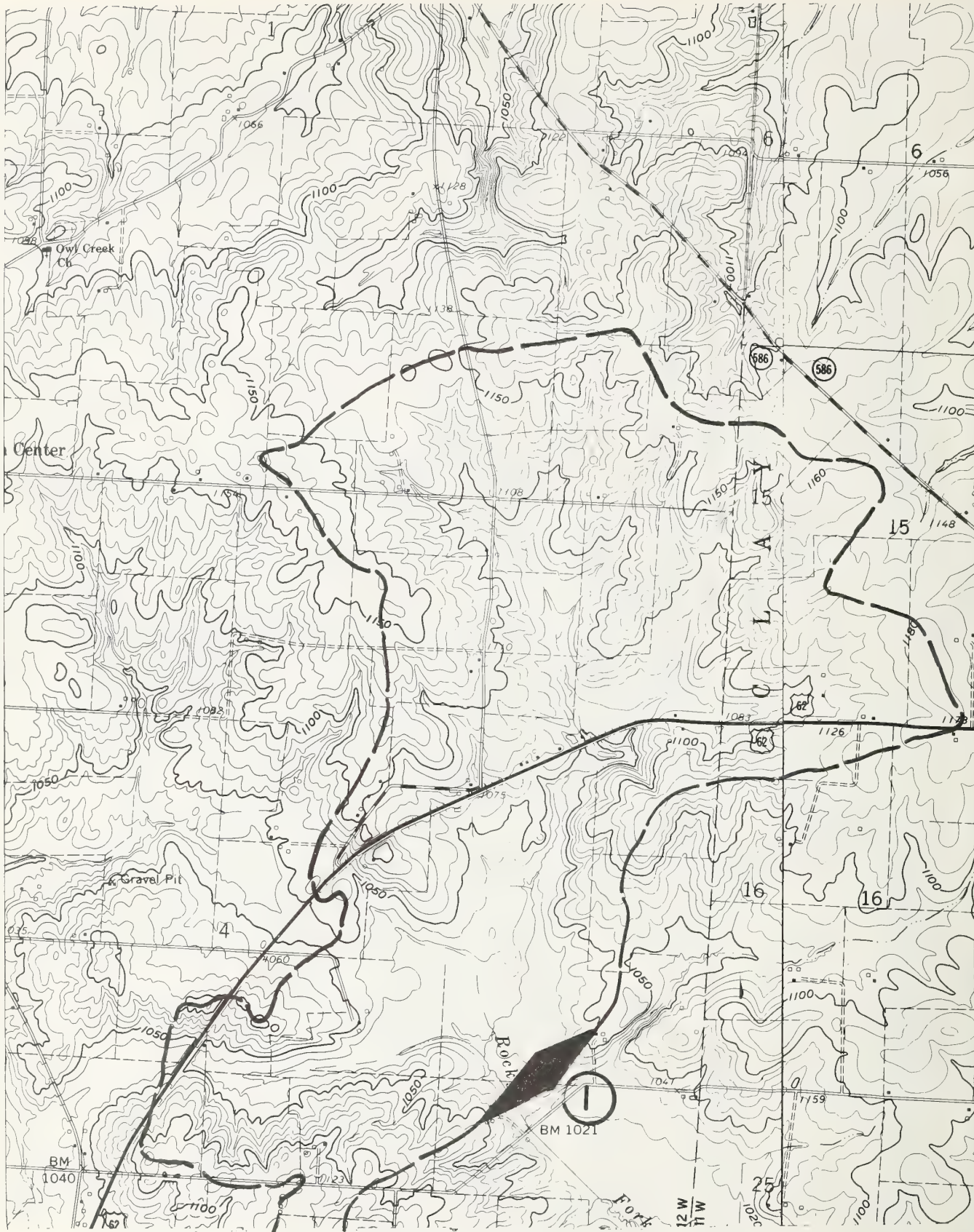
SUBWATERSHED LICKING RIVER (N. FORK)

LOCATION CO. LICKING TWP. MC KEAN

SEC. LOT 4 SE 1 4 OF SE 1 4

QUAD. NEWARK

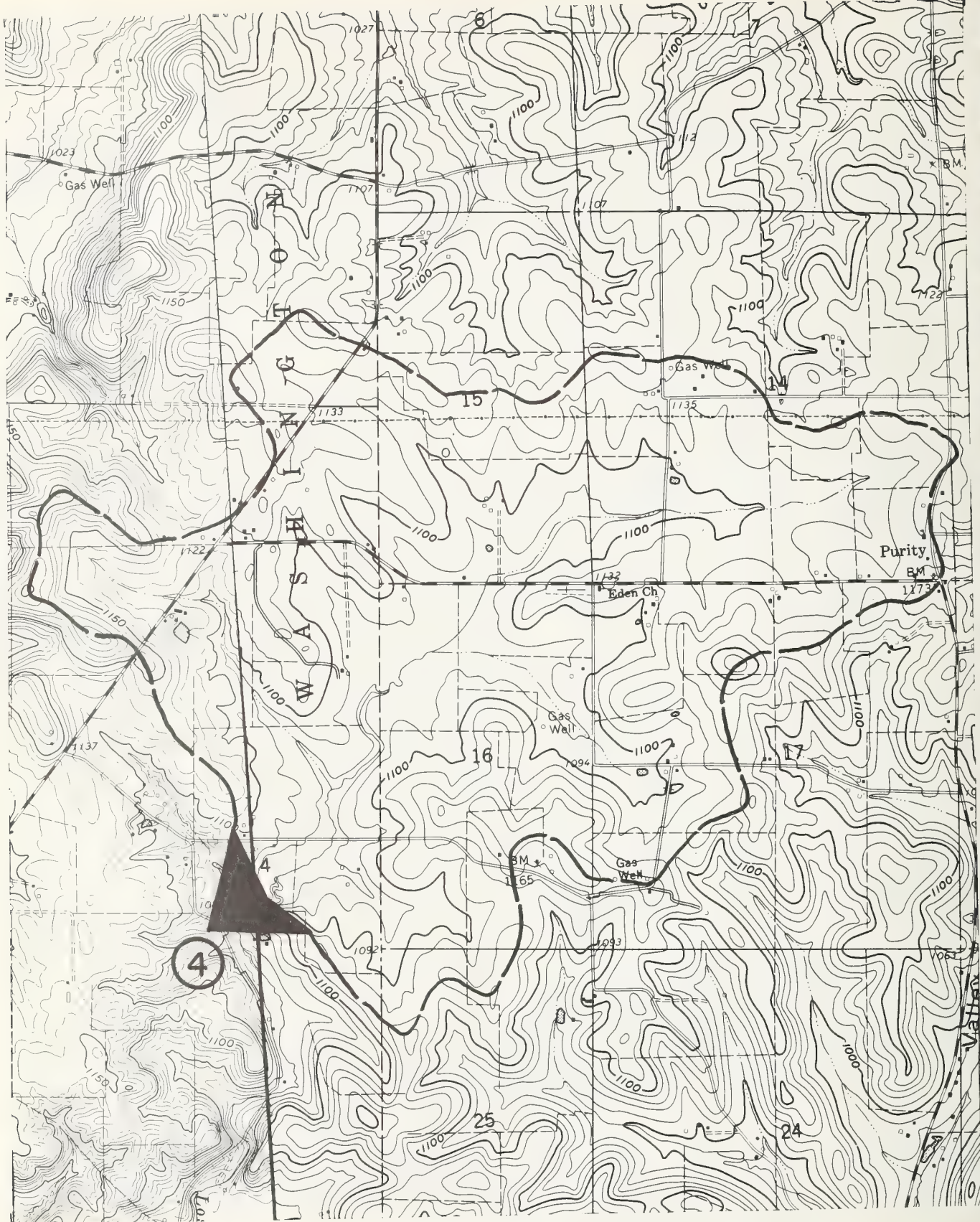
SCALE 1:24000 C.I. 10 FT. ft.



SITE NO. 4D-2 (1)
 SUBWATERSHED LICKING RIVER SUBBASIN (ROCKY FORK)
 LOCATION CO. KNOX TWP. MORGAN
 SEC. 4 NE⁴ OF SW⁴
 QUAD. HUNT
 SCALE 1:24000 C. 1. 10 ft.



SITE NO. 4D-2 (2)
 SUBWATERSHED LICKING RIVER SUBBASIN (ROCKY FORK)
 LOCATION CO. KNOX TWP. CLAY
 SEC. 23 NE⁴ OF SW⁴
 QUAD. HICKMAN
 SCALE 1:24000 C.I. 20 ft.



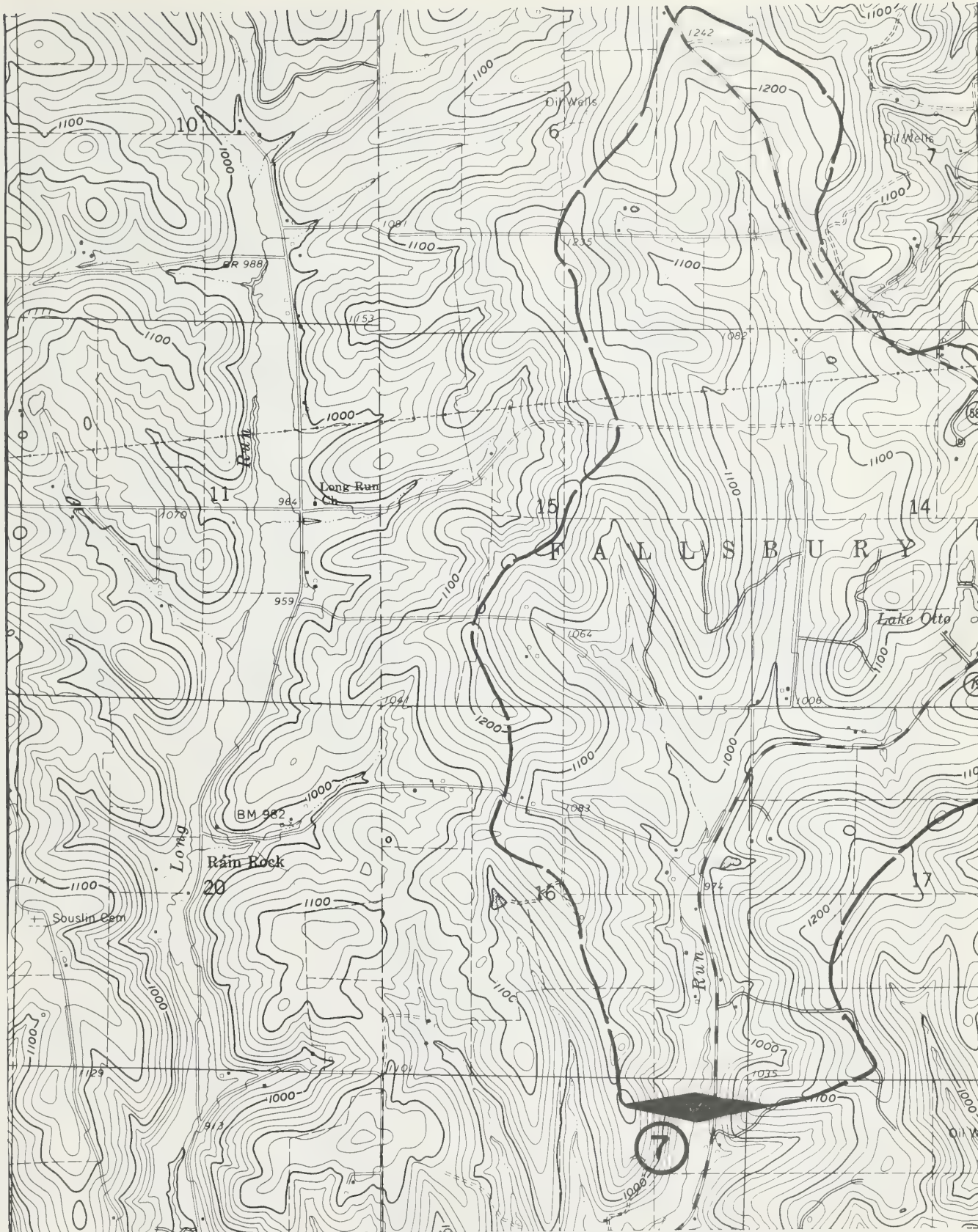
SITE NO. 4D-2 (4)
 SUBWATERSHED LICKING RIVER SUBBASIN (ROCKY FORK)
 LOCATION CO. LICKING TWP. WASHINGTON
 SEC. 4 NE⁴ OF SE⁴
 QUAD. HICKMAN
 SCALE 1:24000 C.I. 10 ft.



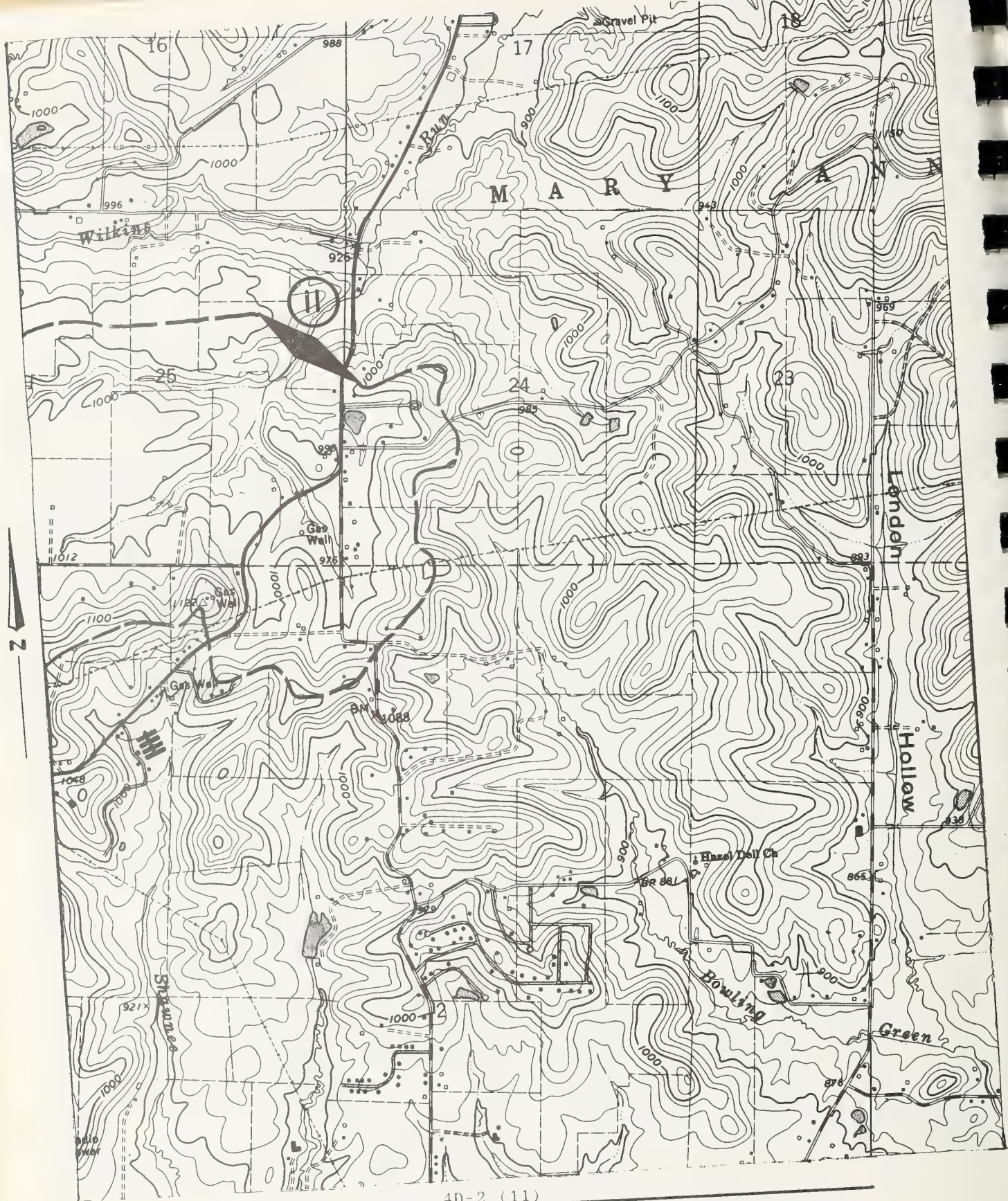
SITE NO. 4D-2 (5)
 SUBWATERSHED LICKING RIVER SUBBASIN (ROCKY FORK)
 LOCATION CO. LICKING TWP. MARY ANN
 SEC. 4 NE⁴ OF SW⁴
 QUAD. HICKMAN
 SCALE 1:24000 C.I. 20 ft.



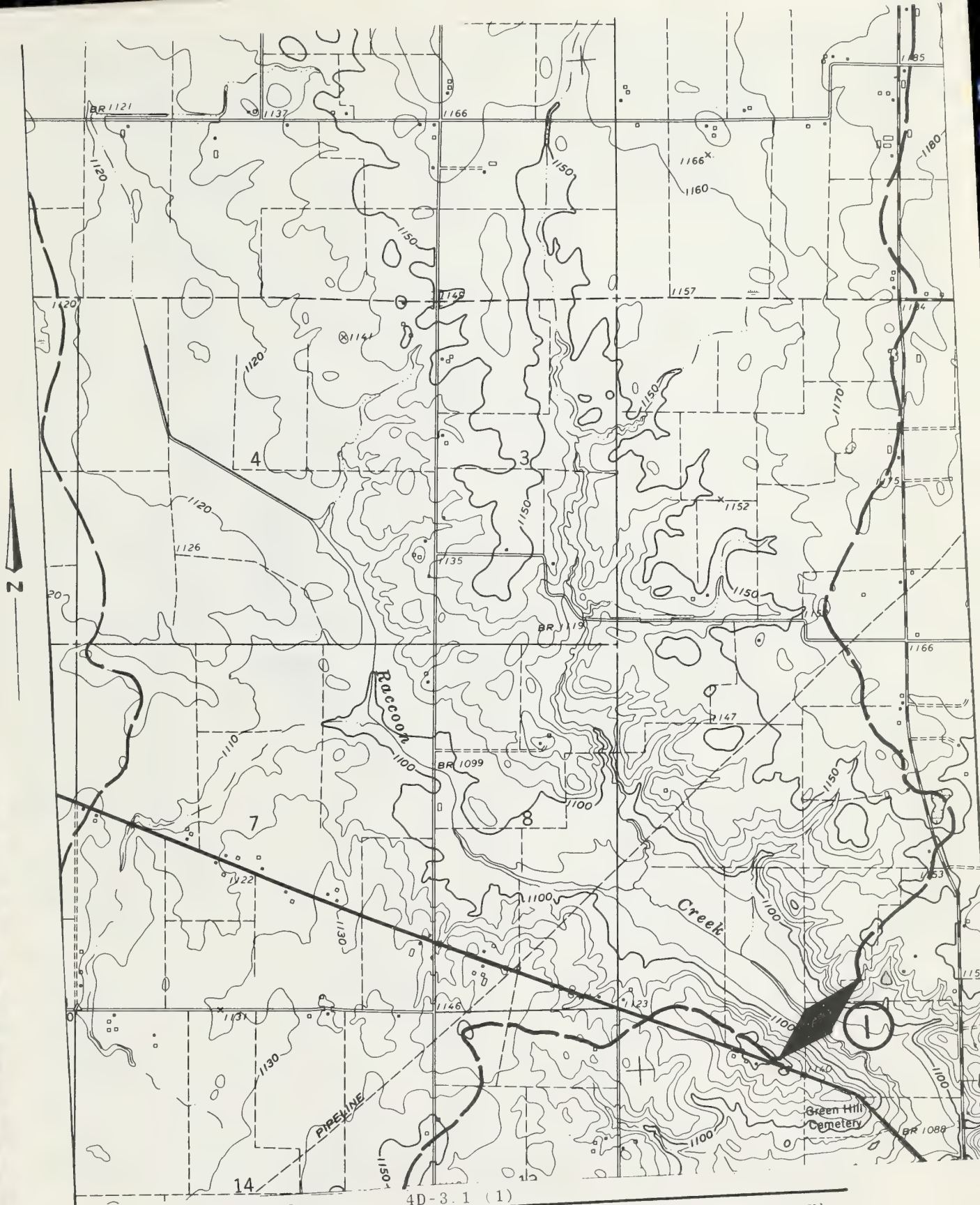
SITE NO. 4D-2 (6)
 SUBWATERSHED LICKING RIVER SUBBASIN (ROCKY FORK)
 LOCATION CO. LICKING TWP. EDEN
 SEC. 20 SE⁴ OF NW⁴
 QUAD. HICKMAN
 SCALE 1:24000 C.I. 20 ft.



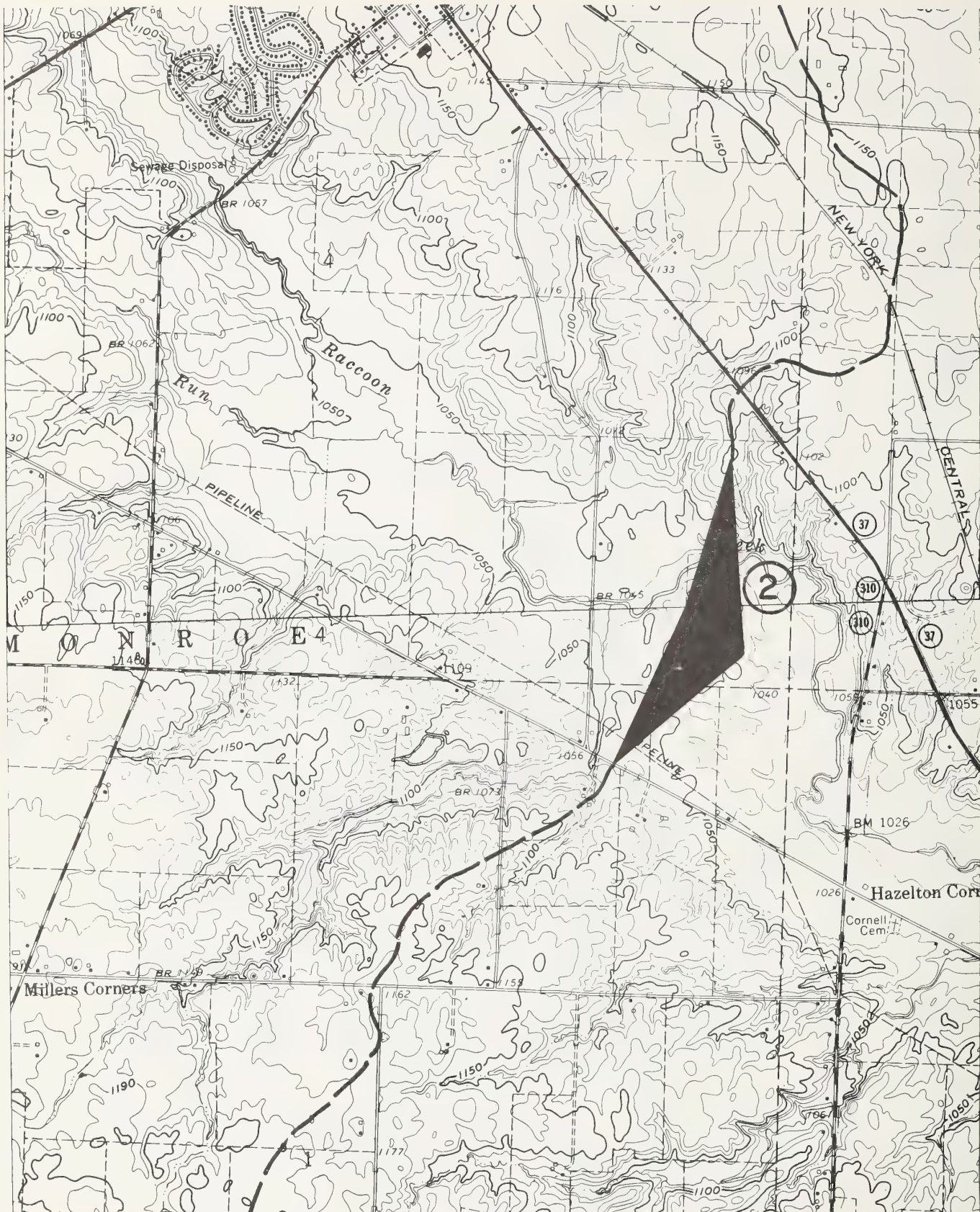
SITE NO. 4D-2 (7)
 SUBWATERSHED LICKING RIVER SUBBASIN (ROCKY FORK)
 LOCATION CO. LICKING TWP. FALLSBURY
 SEC. 25 NE¹ OF NE¹
 QUAD. HICKMAN
 SCALE 1:24000 C.I. 20 ft.



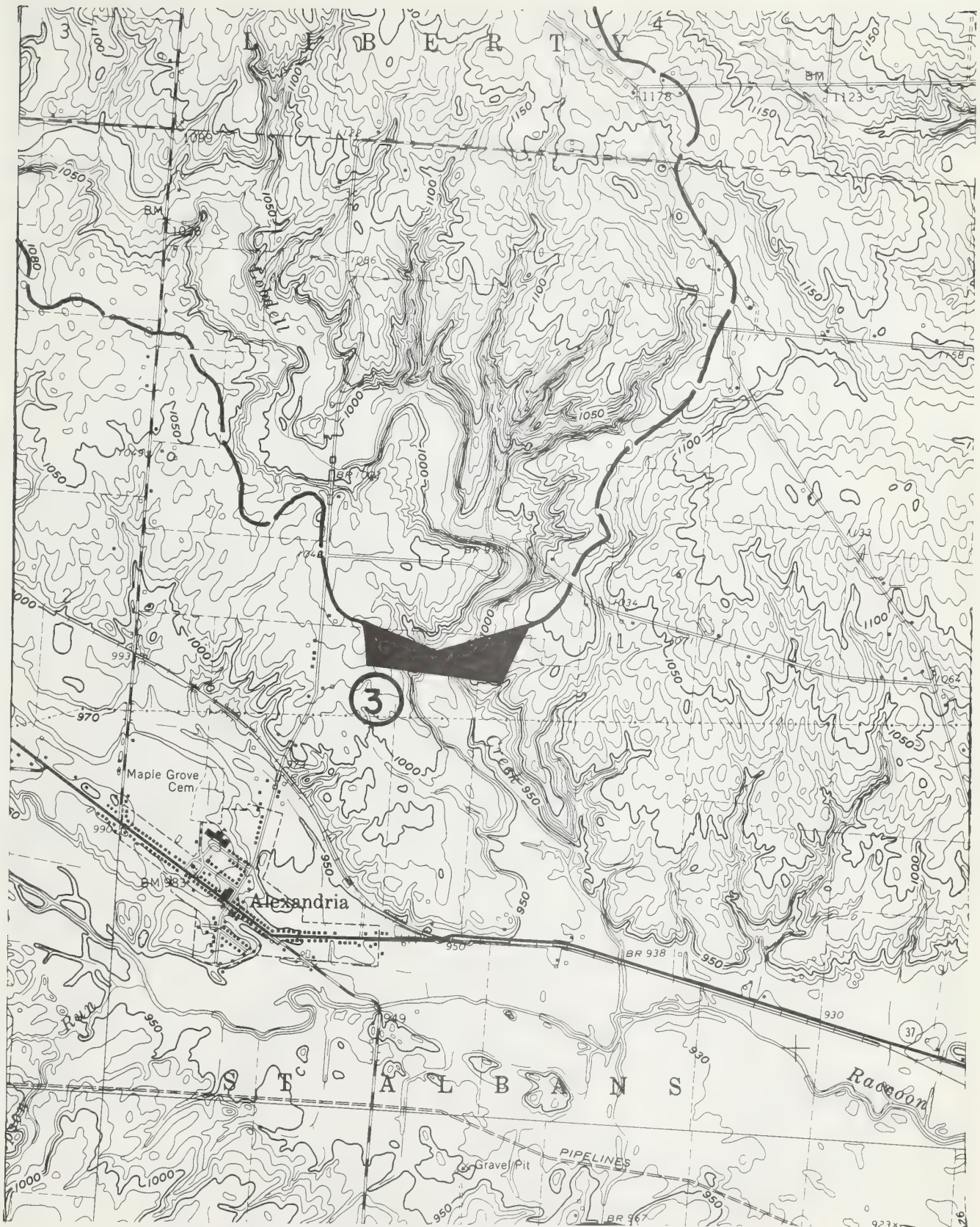
SITE NO. 4D-2 (11)
 SUBWATERSHED LICKING RIVER SUBBASIN (ROCKY FORK)
 LOCATION CO. LICKING TWP. MARY
 SEC. 25 SE¹ OF NE⁴
 QUAD. HANOVER
 SCALE 1:24000 C.I. 20 ft.



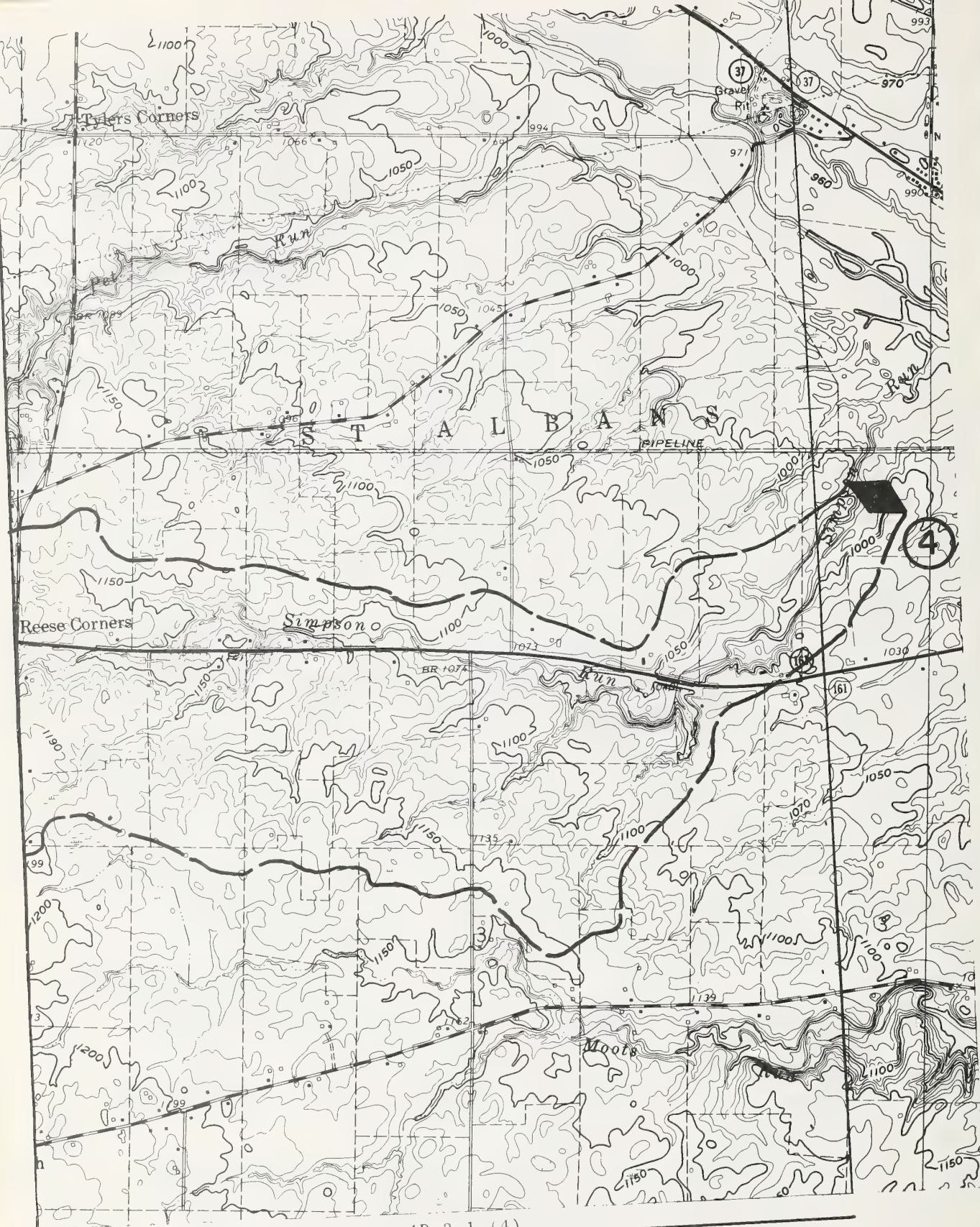
SITE NO. 4D-3.1 (1)
 SUBWATERSHED LICKING RIVER SUBBASIN (RACCOON CREEK)
 LOCATION CO. LICKING TWP. MONROE
 SEC. 1 NE⁴ OF SW⁴
 QUAD. JOHNSTOWN
 SCALE 1:24000 C.I. 10 ft.



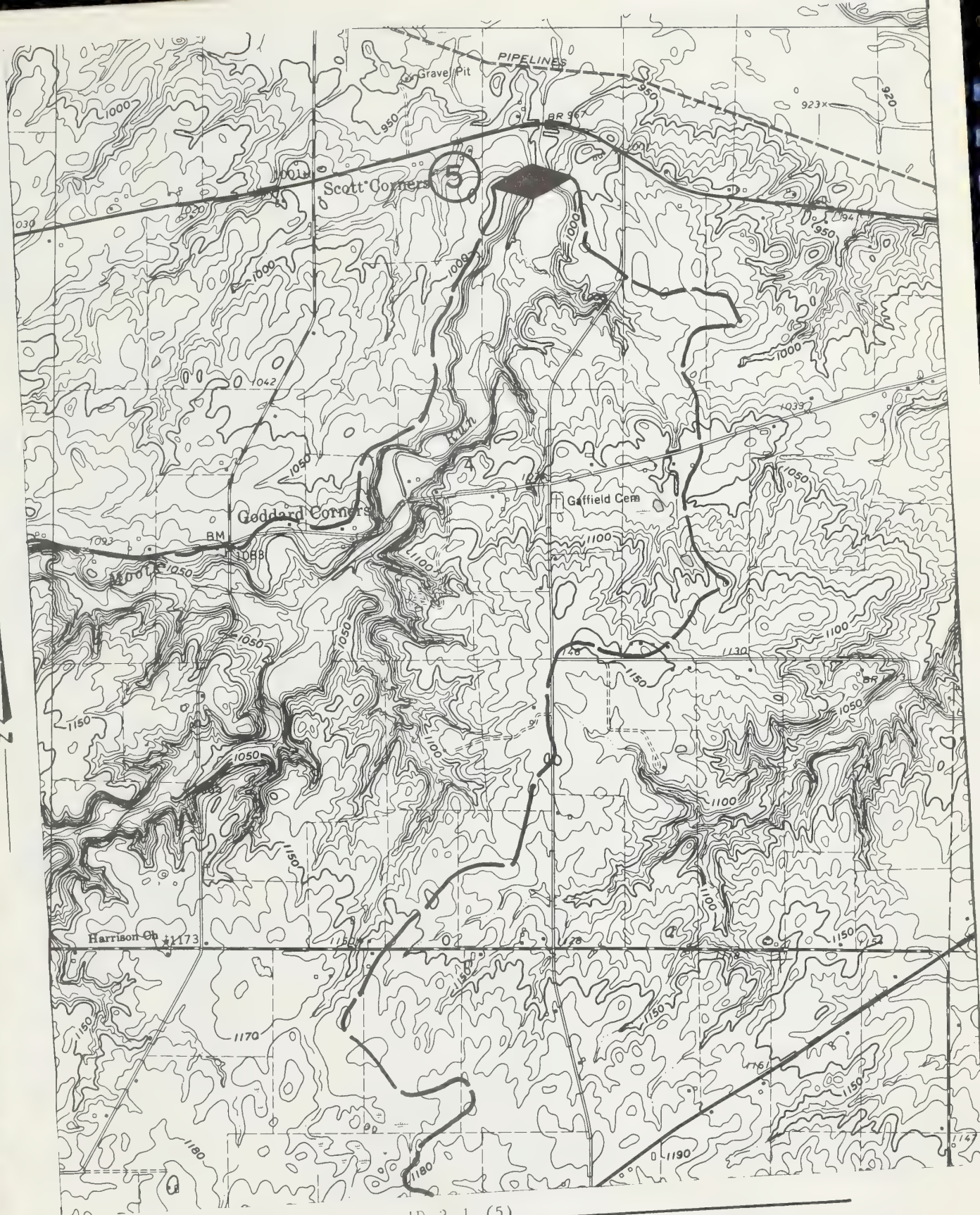
SITE NO. 4D-3.1 (2)
 SUBWATERSHED LICKING RIVER SUBBASIN (RACCOON CREEK)
 LOCATION CO. LICKING TWP. MONROE
 SEC. 2 SE⁴ OF SE⁴
 QUAD. JOHNSTOWN
 SCALE 1:24000 C.I. 10 ft.



SITE NO. 4D 3.1 (3)
 SUBWATERSHED LICKING RIVER SUBBASIN (RACCOON CREEK)
 LOCATION CO. LICKING TWP. ST ALBANS
 SEC. 1 NE¹ OF SW¹
 QUAD. GRANVILLE
 SCALE 1: 24000 C. I. 10 ft.



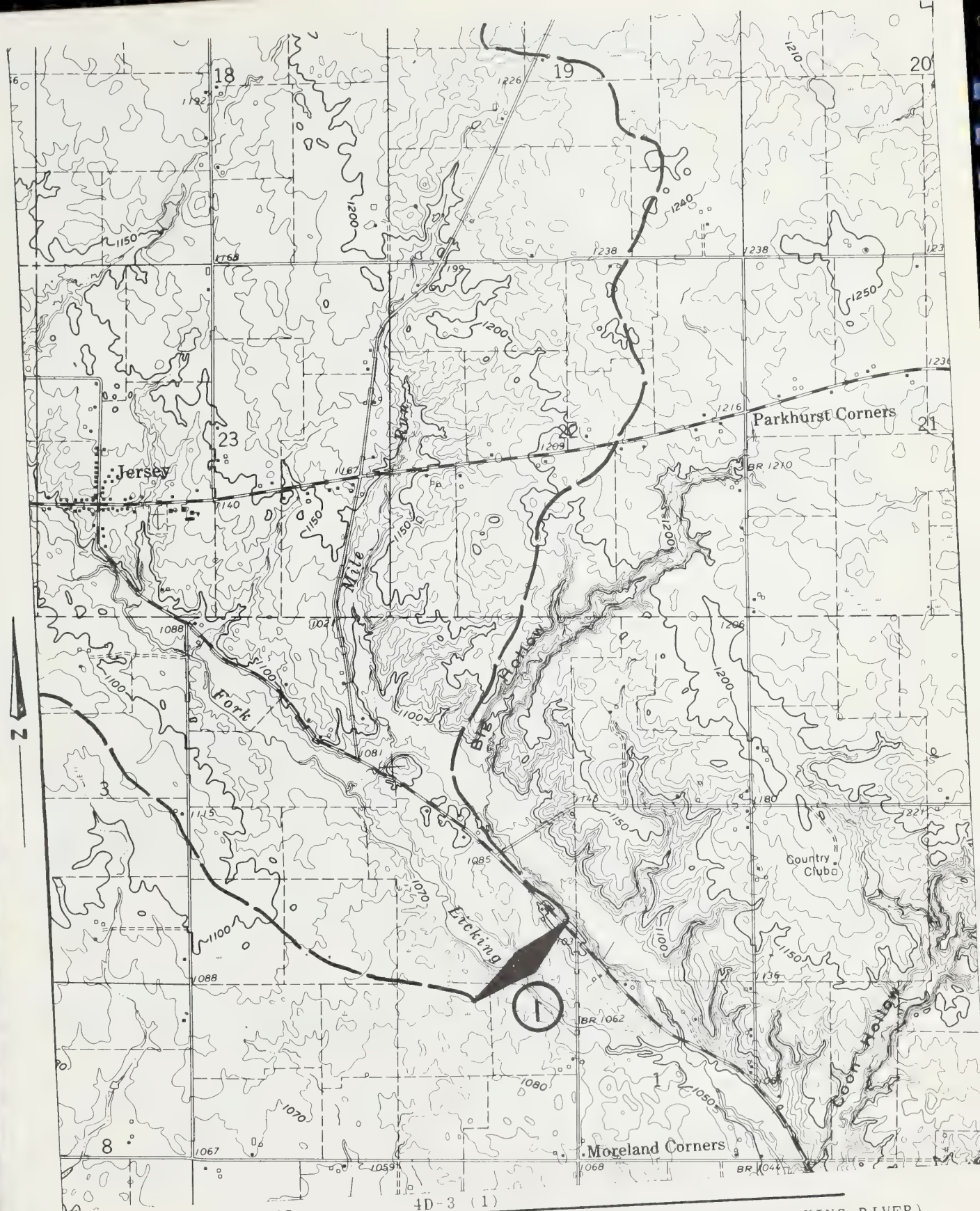
SITE NO. 4D-3.1 (4)
 SUBWATERSHED LICKING RIVER SUBBASIN (RACCOON CREEK)
 LOCATION CO. LICKING TWP. ST. ALBANS
 SEC. 3 NE⁴ OF NE⁴
 QUAD. GRANVILLE
 SCALE 1: 24000 C.I. 10 ft.



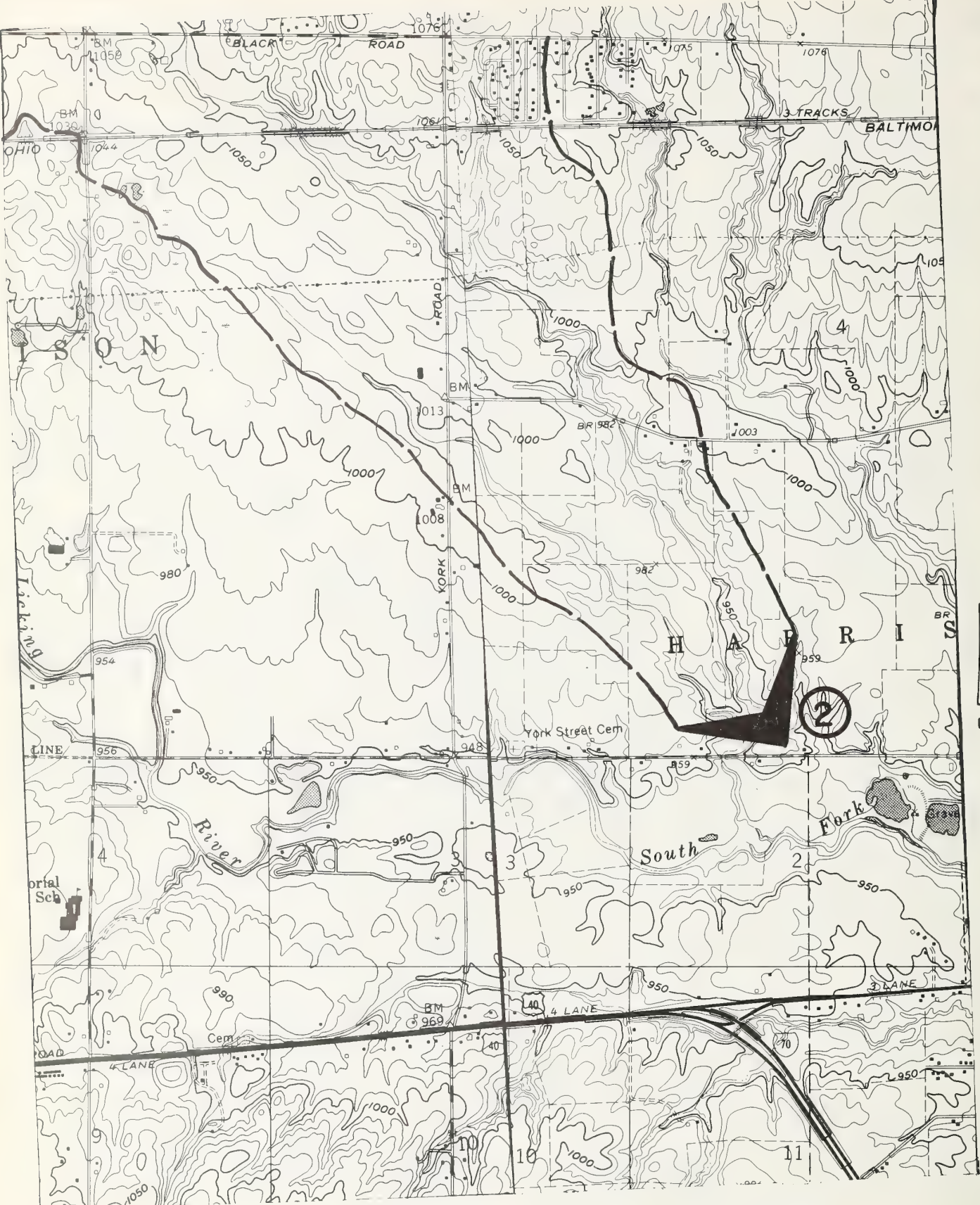
SITE NO. 4D-3.1 (5)
 SUBWATERSHED LICKING RIVER SUBBASIN (RACCOON CREEK)
 LOCATION CO. LICKING TWP. ST. ALBANS
 SEC. 4 NW⁴ OF NE⁴
 QUAD. GRANVILLE
 SCALE 1:24000 C.I. 10 ft.



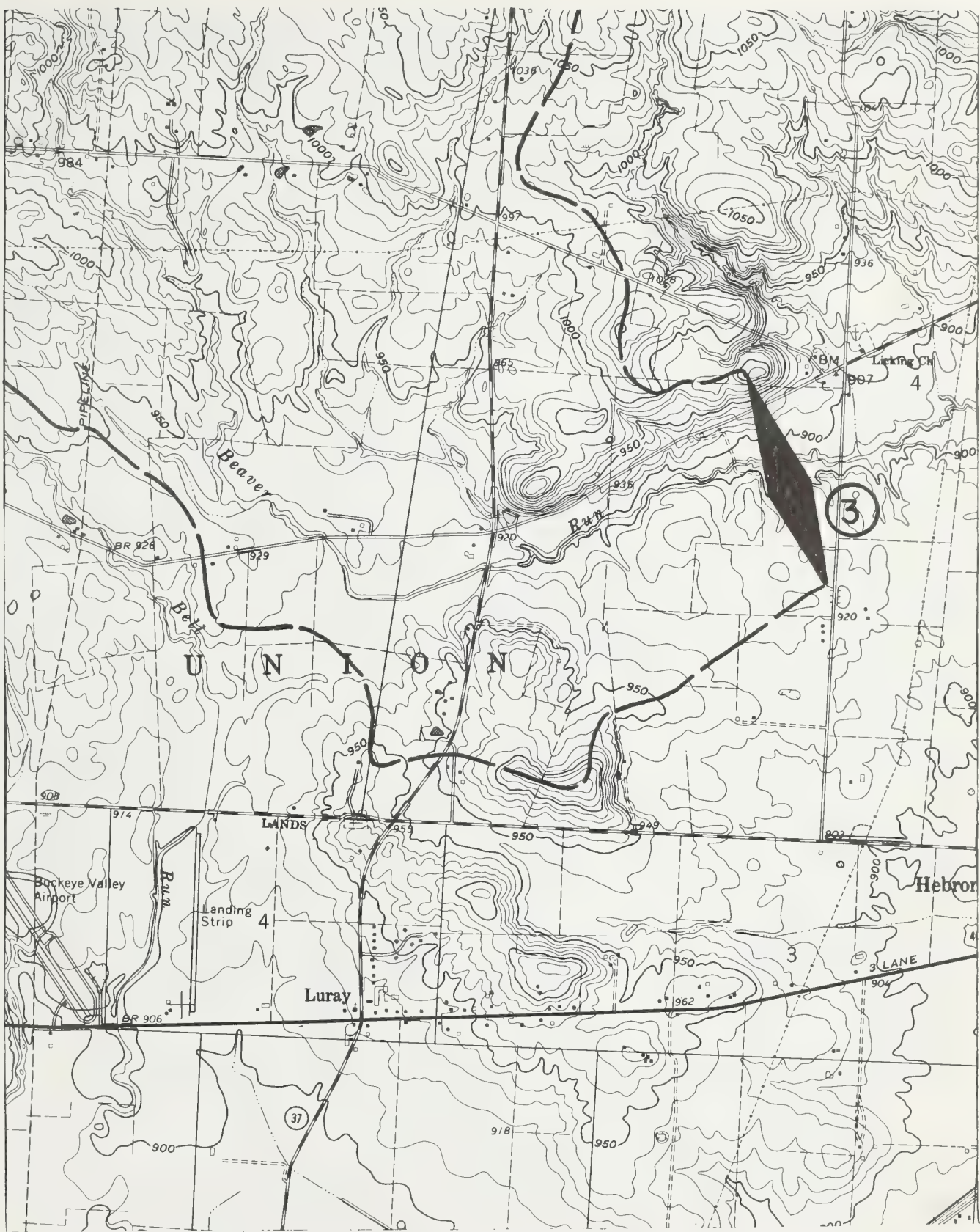
SITE NO. 4D-4.1 (1)
 SUBWATERSHED LICKING RIVER (LOG POND RUN)
 LOCATION CO. LICKING TWP. NEWARK
 SEC. LOT 2 SE¹ OF NW⁴
 QUAD. NEWARK
 SCALE 1: 24000 C. I. 10 ft.



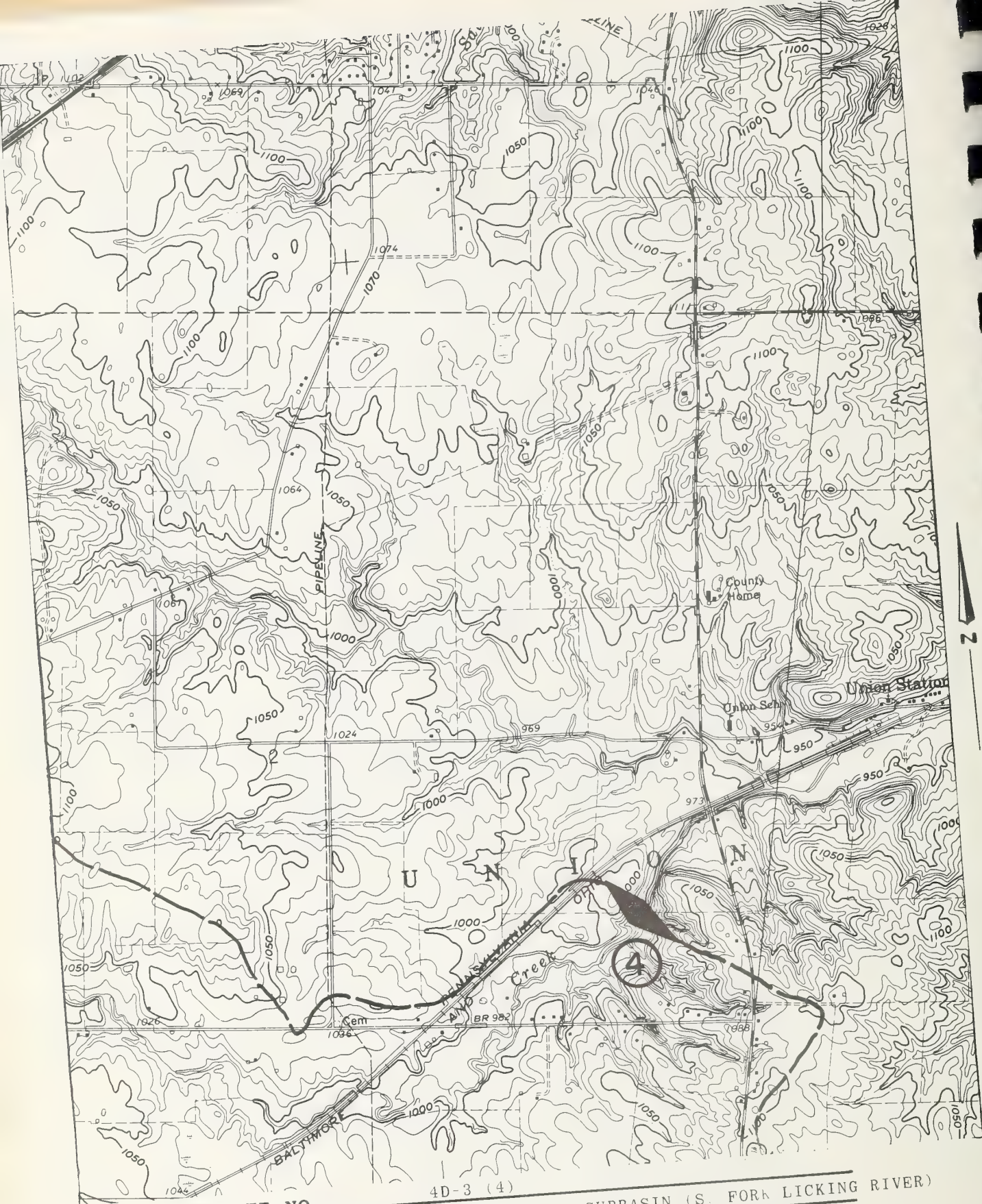
SITE NO. 4D-3 (1)
 SUBWATERSHED LICKING RIVER SUBBASIN (S FORK LICKING RIVER)
 LOCATION CO. LICKING TWP. LIMA
 SEC. 1 SE⁴ OF NW⁴
 QUAD. JERSEY
 SCALE 1:24000 C.I. 10 ft.



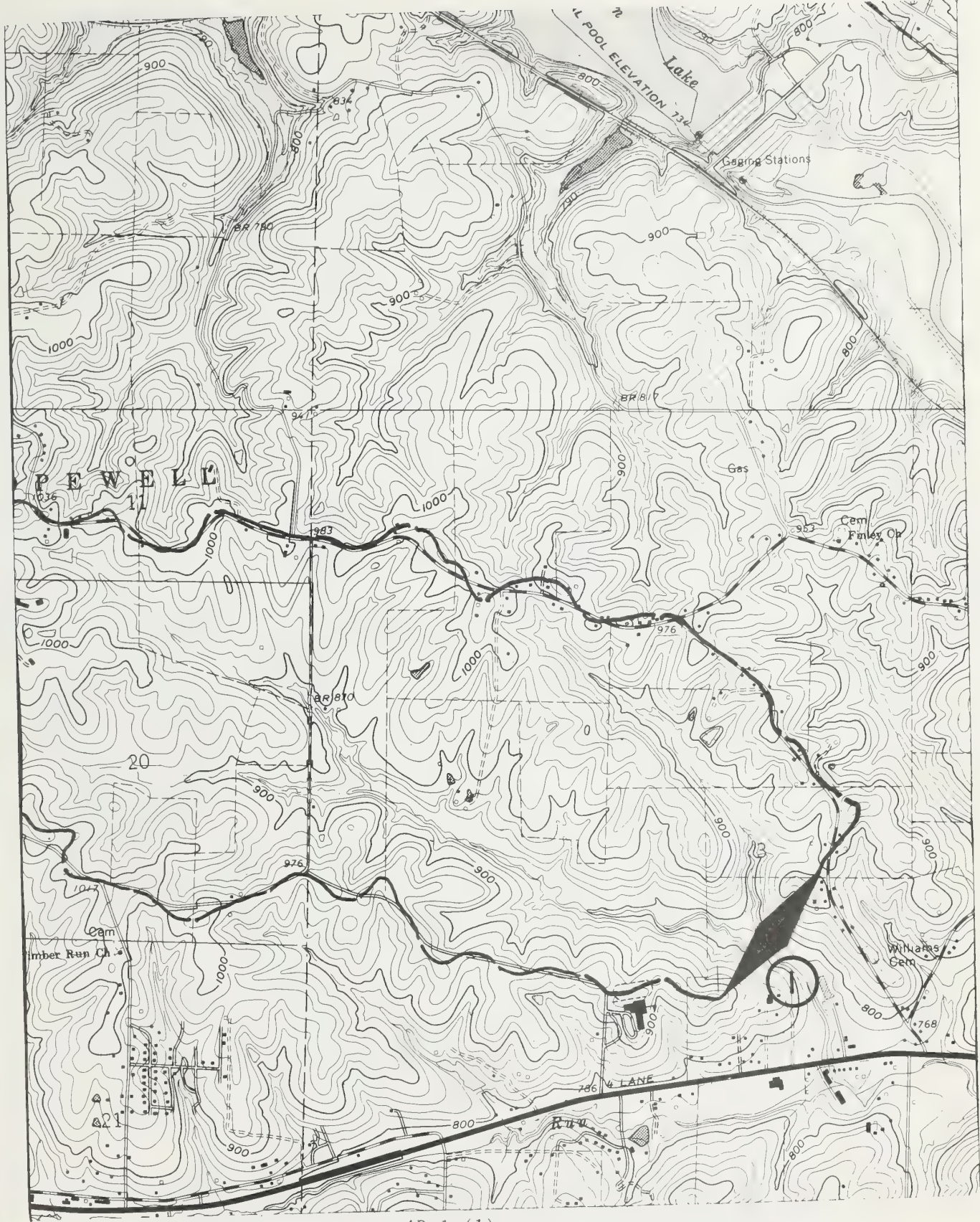
SITE NO. 4D-3 (2)
SUBWATERSHED LICKING RIVER SUBBASIN (SOUTH FORK LICKING RIVER)
LOCATION CO. LICKING TWP. HARRISON
SEC. 4 SE⁴ OF SW⁴
QUAD. MILLERSPORT
SCALE 1:24000 C.I. 10 ft.



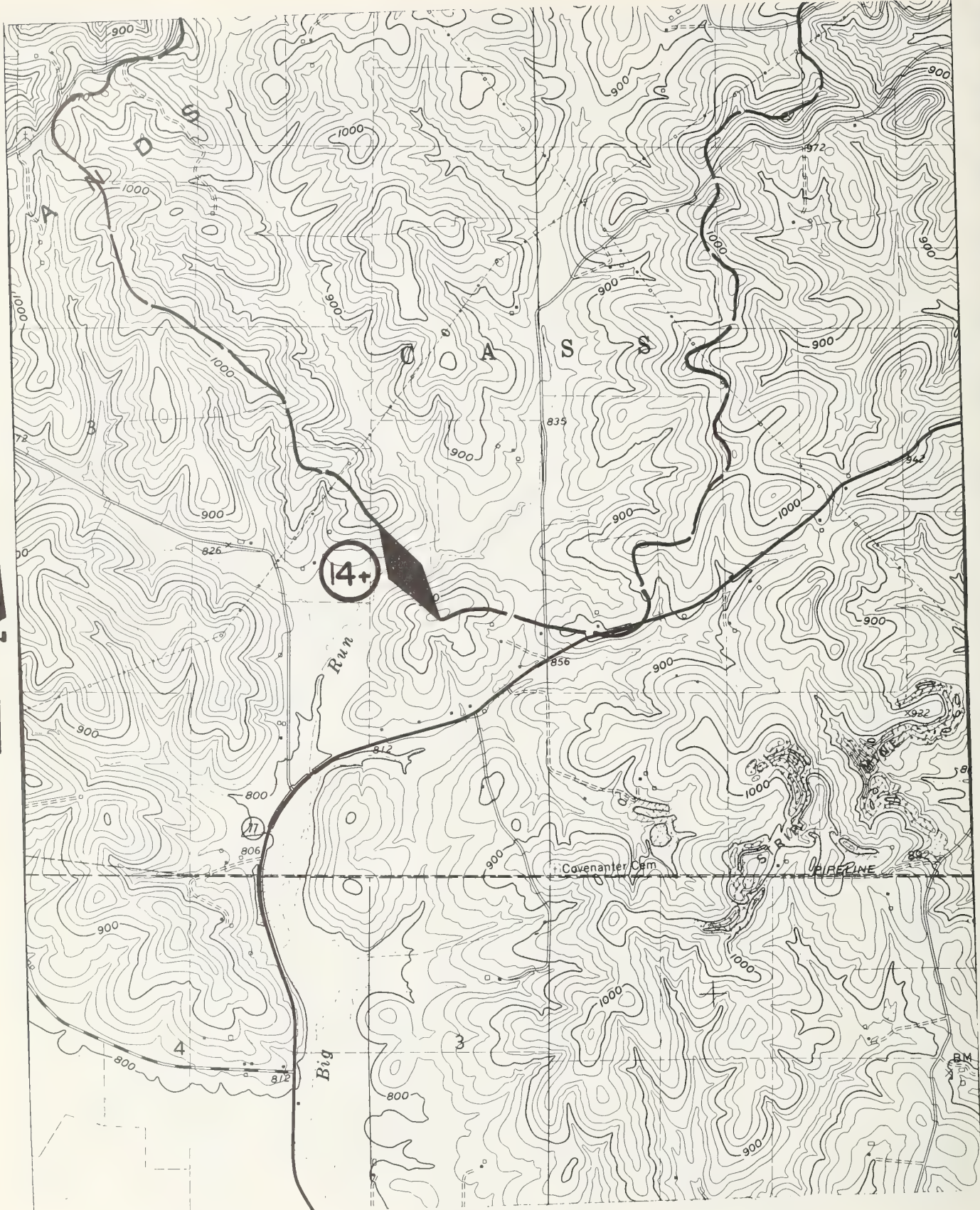
SITE NO. 4D-3 (3)
 SUBWATERSHED LICKING RIVER SUBBASIN (S. FORK LICKING RIVER)
 LOCATION CO. LICKING TWP. UNION
 SEC. 4 NE⁴ OF SW⁴
 QUAD. MILLERSPORT
 SCALE 1:24000 C.I. 10 ft.



SITE NO. 4D-3 (4)
 SUBWATERSHED LICKING RIVER SUBBASIN (S. FORK LICKING RIVER)
 LOCATION CO. LICKING TWP. UNION
 SEC. 2 NW⁴ OF SE¹
 QUAD. GRANVILLE
 SCALE 1: 24000 C.I. 10 ft.



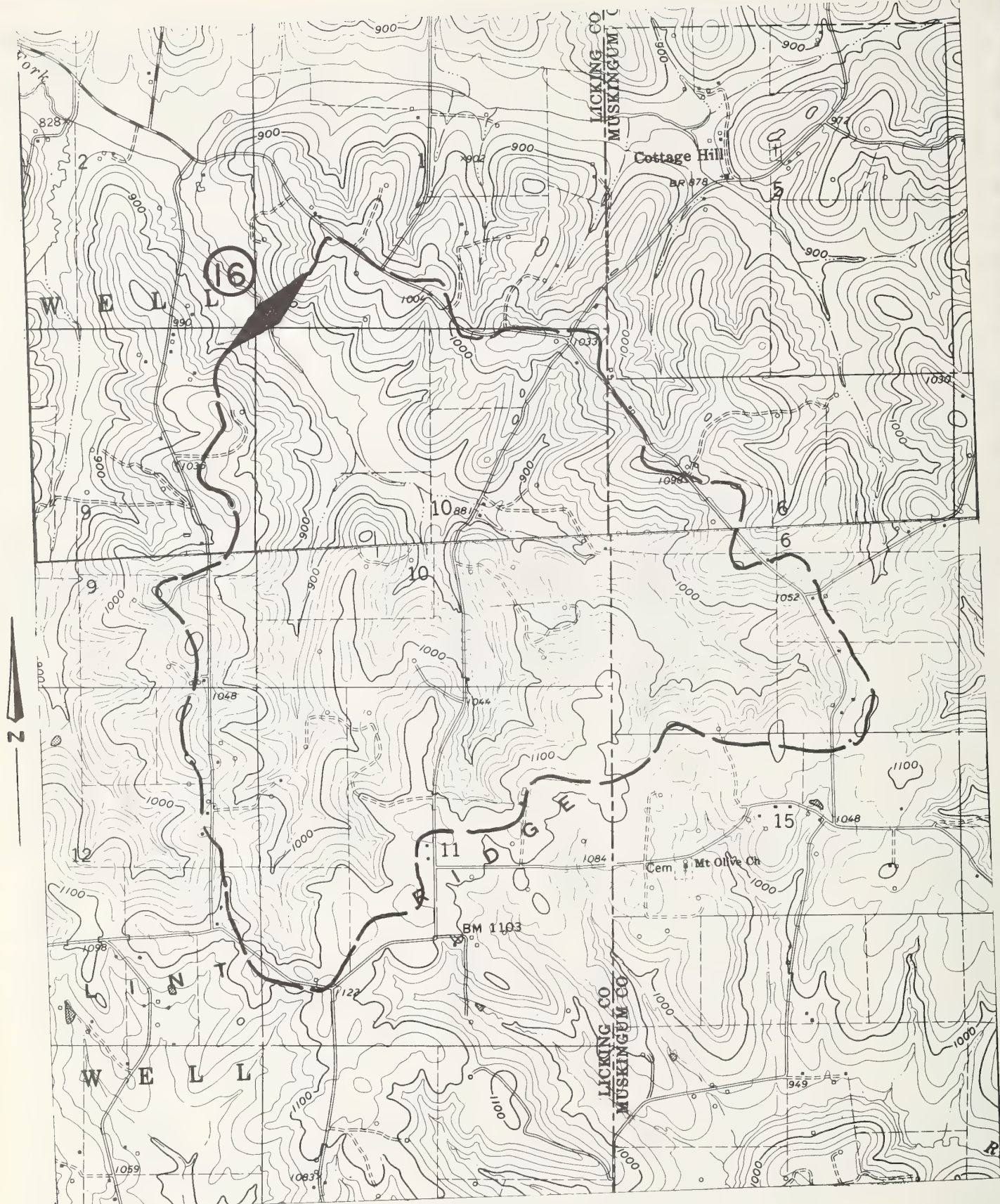
SITE NO. 4D-1 (1)
 SUBWATERSHED LICKING RIVER (LOCAL DRAINAGE)
 LOCATION CO. MUSKINGUM TWP. FALLS
 SEC. 3 NW⁴ OF SE⁴
 QUAD. ZANESVILLE
 SCALE 1:24000 C. I. 20 ft.



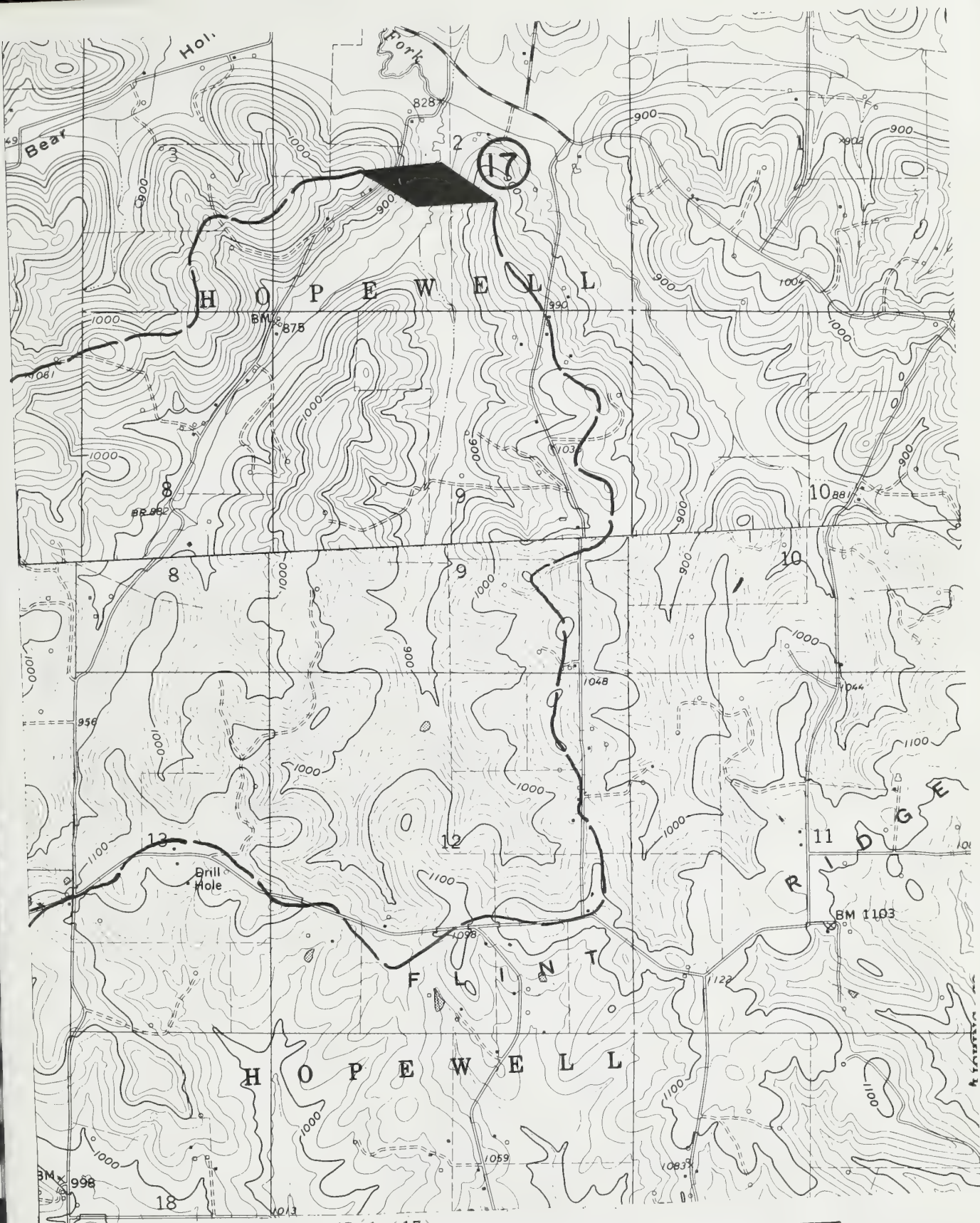
SITE NO. 4D-1 (14+)
 SUBWATERSHED LICKING RIVER (LOCAL DRAINAGE)
 LOCATION CO. MUSKINGUM TWP. CASS
 SEC. 3 NE⁴ OF SE⁴
 QUAD. DRESDEN
 SCALE 1:24000 C.I. 20 ft.



SITE NO. 4D-1 (15)
SUBWATERSHED LICKING RIVER (LOCAL DRAINAGE)
LOCATION CO. MUSKINGUM TWP. HOPEWELL
SEC. 5 NW⁴ OF SE⁴
QUAD. TOBOSO
SCALE 1:24000 C. I. 20 ft.

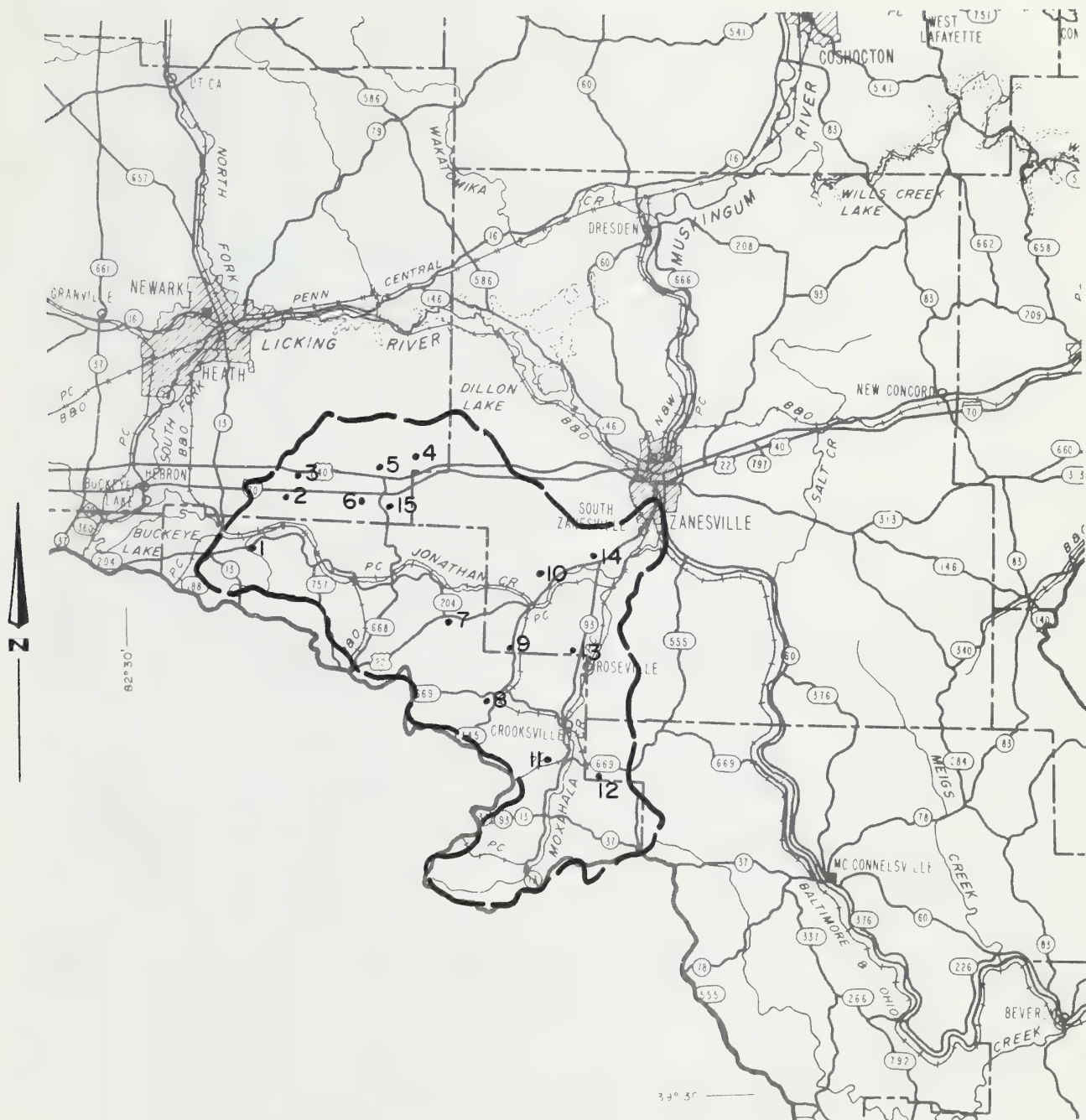


SITE NO. 4D-1 (16)
 SUBWATERSHED LICKING RIVER (LOCAL DRAINAGE)
 LOCATION CO. LICKING TWP. HOPEWELL
 SEC. 1 SW⁴ OF SW⁴
 QUAD. TOBOSO
 SCALE 1:24000 C.I. 20 ft.



SITE NO. 4D-1 (17)
SUBWATERSHED LICKING RIVER (LOCAL DRAINAGE)
LOCATION CO. LICKING TWP. HOPE WELL
SEC. 2 NE 1/4 OF SW 1/4
QUAD. TOBOSO
SCALE 1:24000 C.I. 20 FT. ft.

**MOXAHALA-JONATHAN CREEK
SUB BASIN**



MUSKINGUM RIVER BASIN MOXAHALA-JONATHAN SUB BASIN STATE: OHIO

LICKING, MUSKINGUM, PERRY, MORGAN COUNTIES
SCALE 1/417,000

POTENTIAL RESERVOIR SITE SIGN AND COST SUMMARY NO. 1

OHIO MUSKINGUM RIVER BASIN										DIRECT DRAINAGE										MOXAHALA-JONATHAN CREEK WS									
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ALL DATA BASED ON PRELIMINARY
RESERVOIR LOCATIONS.

POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 2

OHIO MUSKINGUM RIVER BASIN										DIRECT DRAINAGE										MOXAHALA-JONATHAN CREEK WS.									
ELEVATION										* HGT *										* GROSS									
(FT MSL)										* DAM *										* YIELD									
* (FT) *										* SURFACE *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* AREA *										* (YDS) *									
POOL SPWY HIGH OF *HGT *										* POOL FLOOD E.S. *										* (\$1000) *									
CREST WATER DAM *										* CREST *										* (YDS) *									
NORM EMERG DSGN TOP *MAX *										* BEN NORM TEMP TOTAL *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* NORM DSGN VOL *										* (\$1000) *									
CREST WATER DAM *										* POOL HIGH *										* (\$1000) *									
* (FT) *										* WTR *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM *										* STORE BEN *										* (\$1000) *									
* (FT) *										* ALLOC STORE P.C. *										* (\$1000) *									
NORM EMERG DSGN TOP *MAX *										* STORE BEN *										* (\$1000) *									
POOL SPWY HIGH OF *HGT *										* ALLOC STORE P.C. *										* (\$1000) *									
CREST WATER DAM																													

POTENTIAL RESERVOIR SITE, JIGON AND COST SUMMARY NO. 3

OHIO MUSKINGUM RIVER BASIN										DIRECT DRAINAGE										MOXALA-JONATHAN CREEK WS.																																																											
ELEVATION (FT MSL)										*DAM * (FT)*										*STORAGE (AC-FT)										*SURFACE * (AC)										*FILL * (1000)*										*INSTALLATION COST *										*UNIT COST *										*GROSS YIELD * (MGD)									
NORM EMERG DSGN TOP *MAX *										BEN NORM TEMP TOTAL *										NORM DSGN* VOL *										*CONST ENGR L/R PROJ TOTAL*AC-FT ACRE										*STORE BEN BEN * 2										*ALLOC ALLOC STORE* P.C.																													
POOL SPNY HIGH OF *HGT *										USE POOL FLOOD E.S. CREST										POOL HIGH* MTR *										ADM										*STORE BEN BEN * 2										*ALLOC ALLOC STORE* P.C.																													
SITE BUTCHERKNIFE CREEK (9)																																																																															
B DA= 7.00 SQ.MI.										ELEV. BOTTOM C/L PROFILE=										781.0										POTENTIAL USES-C RE																																																	
798.7	811.4	814	823	*	42	*	504	1074	1634	*	57	140	*	115	*	244	18	78	66	405*	248	*	817.5	823.6	826	833	*	52	*	2000	2504	1077	1637	*	159	217	*	189	*	375	24	131	78	608*	167	2110	304*	1.95																															
825.5	830.4	832	838	*	57	*	3493	3997	1078	5131	*	216	265	*	242	*	460	28	150	85	723*	141	2277	207*	2.89																																																						
831.8	835.8	837	843	*	62	*	4986	5490	1078	6624	*	264	306	*	294	*	541	32	169	97	841*	127	2393	169*	3.64																																																						
841.5	844.6	846	851	*	70	*	7973	8477	1078	9611	*	344	386	*	393	*	691	41	203	124	1060*	110	2556	133*	3.64																																																						
SITE KENT RUN (10)																																																																															
C DA= 21.70 SQ.MI.										ELEV. BOTTOM C/L PROFILE=										741.0										POTENTIAL USES-FC RE																																																	
768.9	794.0	798	803	*	62	*	1562	5012	6748	*	124	326	*	161	*	355	23	148	76	603*	89	*	798.0	805.5	813	818	*	77	*	6400	7962	4182	12318	*	329	455	*	292	*	590	35	191	106	922*	75	1454	144*	6.27																															
SITE MCLUNEY CREEK (11)																																																																															
B DA= 5.80 SQ.MI.										ELEV. BOTTOM C/L PROFILE=										774.0										POTENTIAL USES-FC RE																																																	
793.5	804.5	807	813	*	39	*	418	833	1297	*	56	118	*	80	*	188	15	72	55	331*	255	*	811.4	817.0	819	826	*	52	*	1700	2118	835	2999	*	140	180	*	167	*	342	23	102	76	542*	181	2202	319*	1.66																															
819.2	823.5	825	832	*	58	*	2937	3355	835	4236	*	179	220	*	213	*	422	26	119	81	649*	153	2510	221*	2.44																																																						
825.4	829.1	831	836	*	62	*	4175	4592	835	5473	*	220	255	*	260	*	496	30	134	90	749*	137	2599	179*	3.09																																																						
830.5	833.9	835	840	*	66	*	5412	5829	835	6711	*	255	286	*	299	*	560	34	143	101	838*	125	2653	155*	3.09																																																						
830.8	834.0	835	840	*	66	*	5460	5878	835	6759	*	256	287	*	296	*	557	33	143	100	834*	123	2632	153*	3.09																																																						
SITE BLACK FORK (12)																																																																															
C DA= 23.60 SQ.MI.										ELEV. BOTTOM C/L PROFILE=										764.0										POTENTIAL USES-FC RE																																																	
782.4	798.5	802	810	*	46	*	1699	4695	6583	*	189	479	*	318	*	598	36	214	108	950*	145	*	803.0	810.3	814	821	*	57	*	7000	8699	3894	12782	*	601	710	*	518	*	930	56	314	167	1467*	113	1605	210*	6.88																															
811.7	817.3	821	830	*	66	*	12034	13734	3894	17816	*	571	852	*	699	*	1205	72	354	217	1849*	104	1861	154*	10.07																																																						
818.5	823.1	827	836	*	72	*	17069	18768	3894	22851	*	806	989	*	847	*	1437	86	387	259	2169*	95	2011	127*	12.97																																																						
829.4	833.0	836	848	*	84	*	27137	28837	3894	32919	*	1056	1219	*	1180	*	1955	117	428	352	2852*	87	2226	105*	13.04																																																						
POTENTIAL USE ABBREVIATIONS																																																																															
ALL DATA BASED ON PRELIMINARY RESERVOIR LOCATIONS.																																																																															
FC	FLOOD CONTROL	LF	LOW FLOW AUGMENTATION	SD	SEDIMENT CONTROL																																																																										
FW	FISH AND WILDLIFE	LL	LAKE LEVEL REGULATION	HQ	WATER QUALITY CONTROL																																																																										
IR	IRRIGATION	LR	LAKE RECREATION	WS	WATER SUPPLY																																																																										
PRICE BASE YEAR 1970																																																																															

POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 4

OHIO MUSKINGUM RIVER BASIN DIRECT DRAINAGE MOXAHALA-JONATHAN CREEK WS.

ELEVATION (FT MSL)	*HGT (FT)*	*DAM (FT)*	*STORAGE (AC-FT)*	*SURFACE (AC)*	*FILL (1000) YDS)*	*INSTALLATION COST (\$1000)	*UNIT COST (\$ PER YIELD (MGD)	*GROSS
NORM EMBRG DSGN TOP *MAX * BEN NORM TEMP TOTAL * NORM DSGN* VOL *CONST ENGR L/R PROJ TOTAL*AC-FT ACRE AC-FT* FOR								
POOL SPWY HIGH OF *HGT * USE POOL FLOOD E-S. * POOL HIGH* CREST * WTR * ADM *STORE BEN BEN * 2 *ALLOC ALLOC STORE* P.C.								

SITE PORTER RUN (13) B DA= 1.80 SQ.MI. ELEV. BOTTOM C/L PROFILE= 750.0 POTENTIAL USES-FC RE

767.0	776.0	778	782	32	130	205	349	18	35	54	140	13	13	42	207	593	*
783.5	787.9	790	796	46	500	630	199	843	44	56	120	255	18	21	67	361	428
791.0	794.5	797	802	52	884	1014	197	1225	57	68	159	322	22	22	74	441	360
797.0	800.0	802	806	56	1268	1398	197	1608	68	80	196	387	25	24	79	515	320
806.7	809.2	811	814	64	2036	2165	232	2412	94	106	267	495	30	29	89	643	267
																	5751
																	316*
																	0.90

SITE THOMPSON RUN (14) B DA= 13.70 SQ.MI. ELEV. BOTTOM C/L PROFILE= 715.0 POTENTIAL USES-FC RE

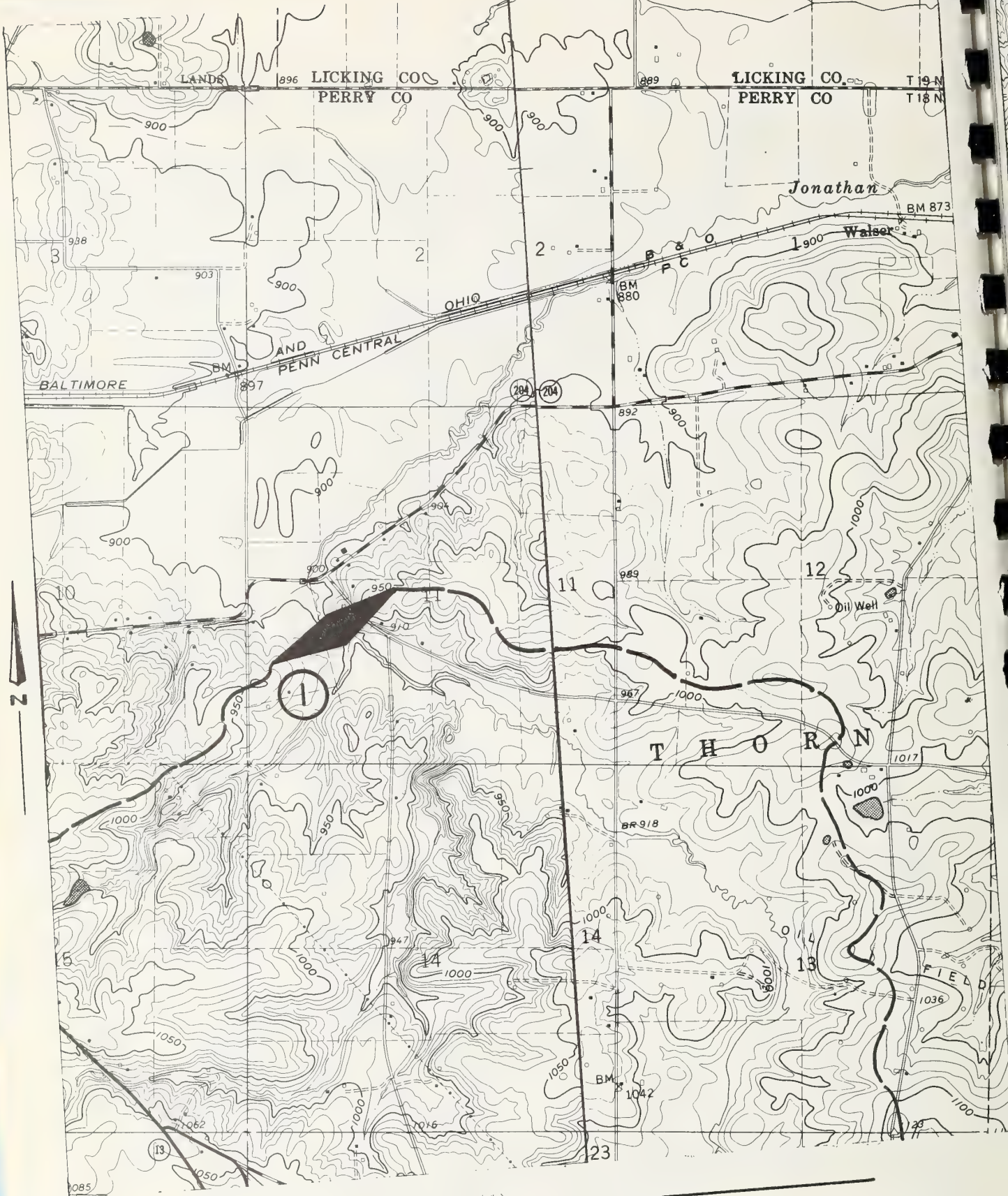
740.5	753.5	756	763	48	826	1914	2828	81	253	128	273	19	257	70	619	219	*
760.7	766.5	769	776	61	3900	4726	1914	6728	305	410	243	468	28	427	86	1010	150
768.9	773.4	775	782	67	6822	7648	1914	9650	413	496	318	587	35	505	106	1233	128
775.3	779.0	781	787	72	9745	10571	1914	12573	498	575	391	700	42	572	126	1439	114
785.4	788.0	789	794	79	15590	16416	1914	18417	688	782	528	910	55	626	164	1754	95
																	2157
																	113*
																	7.40

SITE VALLEY RUN (15) B DA= 14.90 SQ.MI. ELEV. BOTTOM C/L PROFILE= 870.0 POTENTIAL USES-FC RE

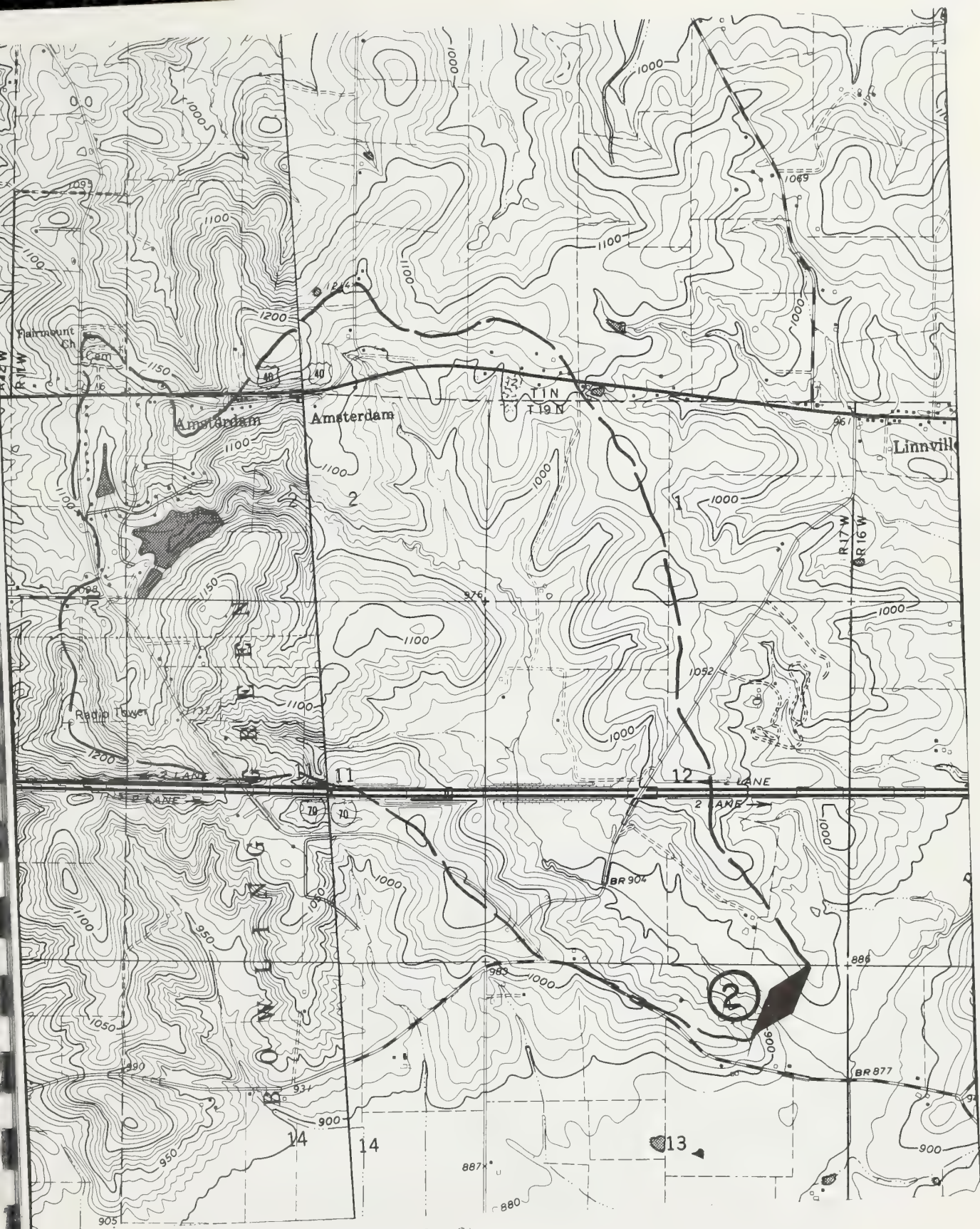
887.9	900.0	902	910	40	898	2229	3222	126	350	198	405	26	140	80	651	202	*
905.1	909.4	911	916	46	4200	5098	2229	7422	469	688	280	579	35	279	104	998	134
910.6	913.8	915	919	49	7378	8276	2229	10601	695	858	332	678	41	349	122	1189	112
911.5	914.4	915	920	50	7900	8798	2229	11123	726	884	340	692	42	355	125	1214	109
																	1187
																	154*
																	6.36

POTENTIAL USE ABBREVIATIONS ALL DATA BASED ON PRELIMINARY RESERVOIR LOCATIONS.

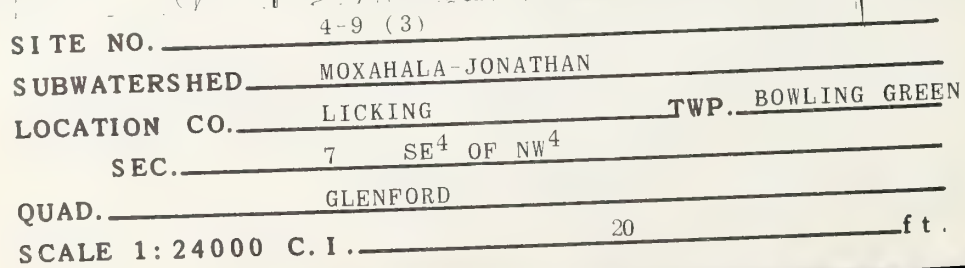
FC FLOOD CONTROL	LF LOW FLOW AUGMENTATION	LL LAKE LEVEL REGULATION	RE RECREATION	SD SEDIMENT CONTROL	WQ WATER QUALITY CONTROL	WS WATER SUPPLY	PRICE BASE YEAR 1970
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SITE NO. 4-9 (1)
 SUBWATERSHED MAXAHALA-JONATHAN
 LOCATION CO. PERRY TWP. THORN
 SEC. 11 NE⁴ AND NW⁴ OF SW⁴
 QUAD. THORNVILLE
 SCALE 1:24000 C.I. 20 ft.

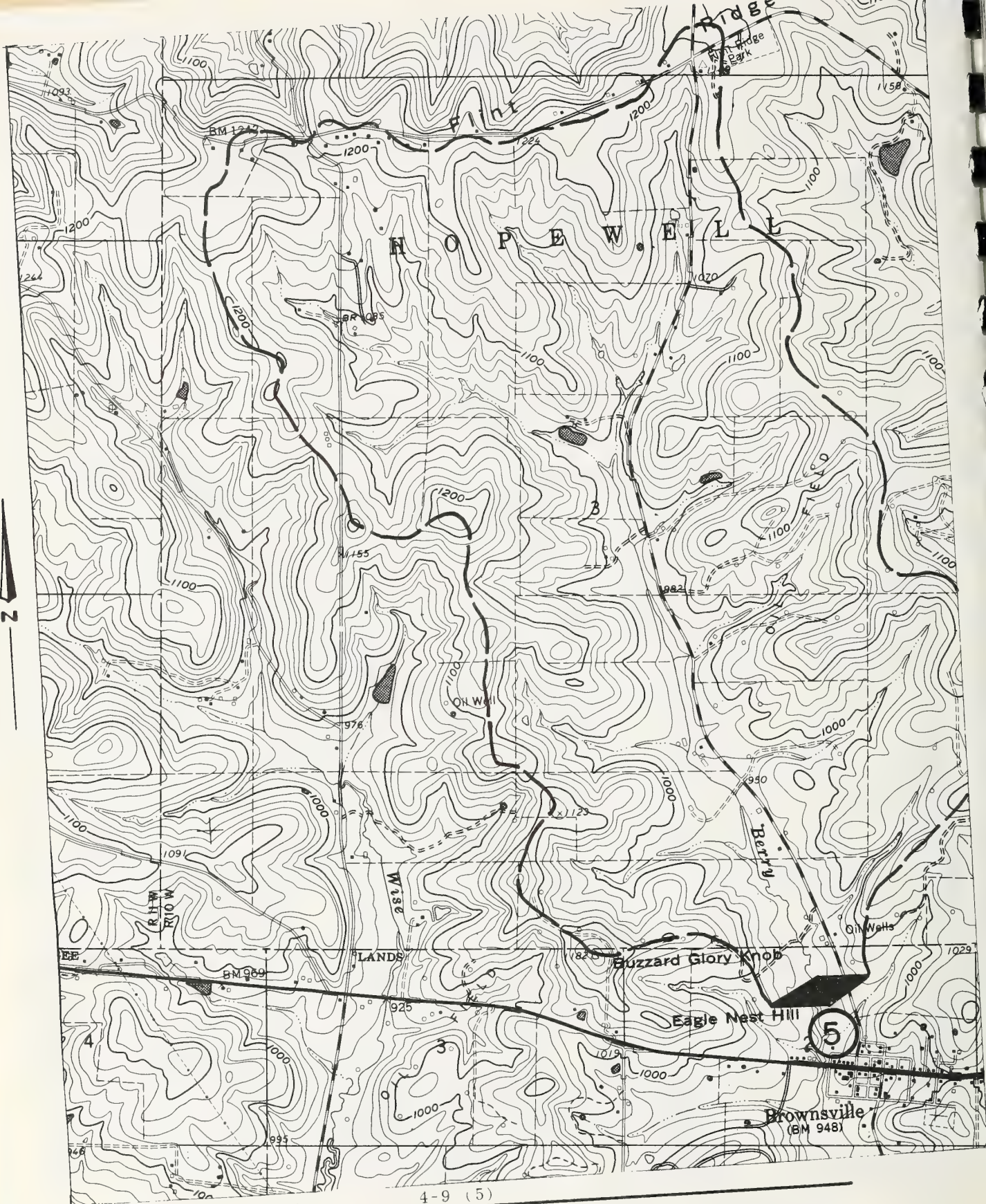


SITE NO. 4-9 (2)
SUBWATERSHED MEXAHALA JONATHAN
LOCATION CO. LICKING TWP. BOWLING GREEN
SEC. 13 NE⁴ OF NE⁴
QUAD. GLENFORD
SCALE 1:24000 C.I. 20 ft.

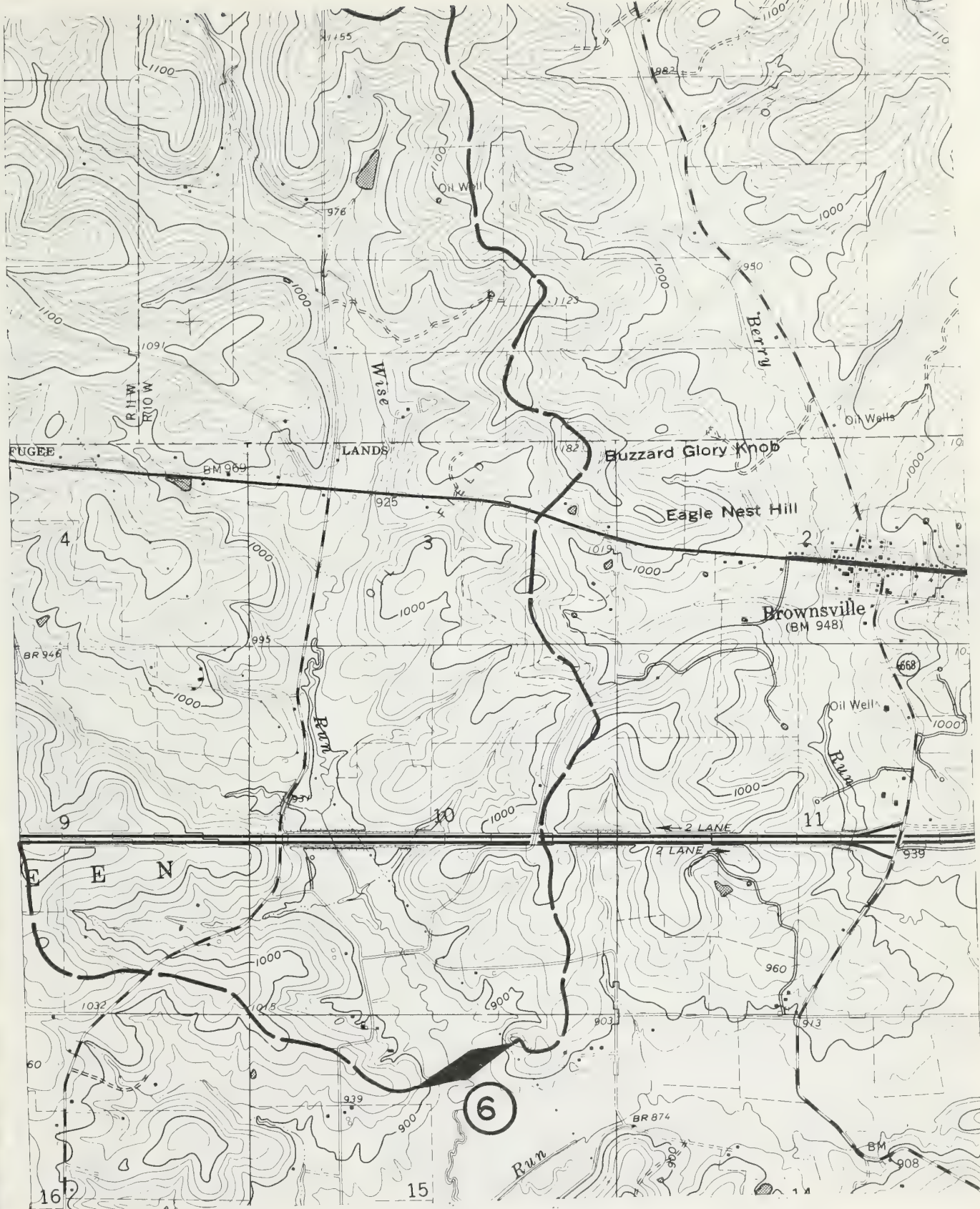




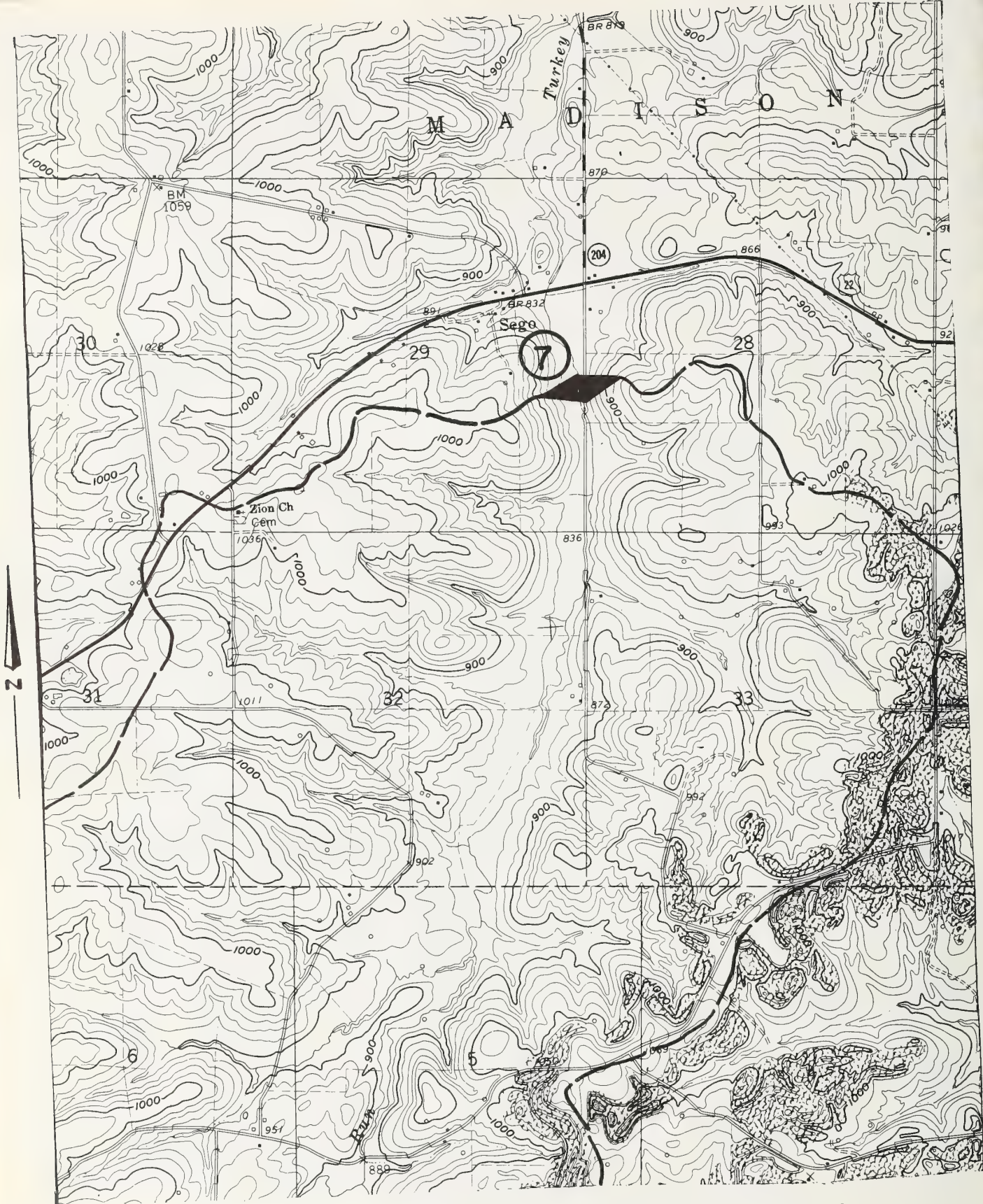
SITE NO. 4-9 (+)
 SUBWATERSHED MOXAHALA - JONATHAN
 LOCATION CO. LICKING TWP. HOPEWELL
 SEC. 22 NE 1/4 OF SW 1/4
 QUAD. GRATIOT
20 ft.



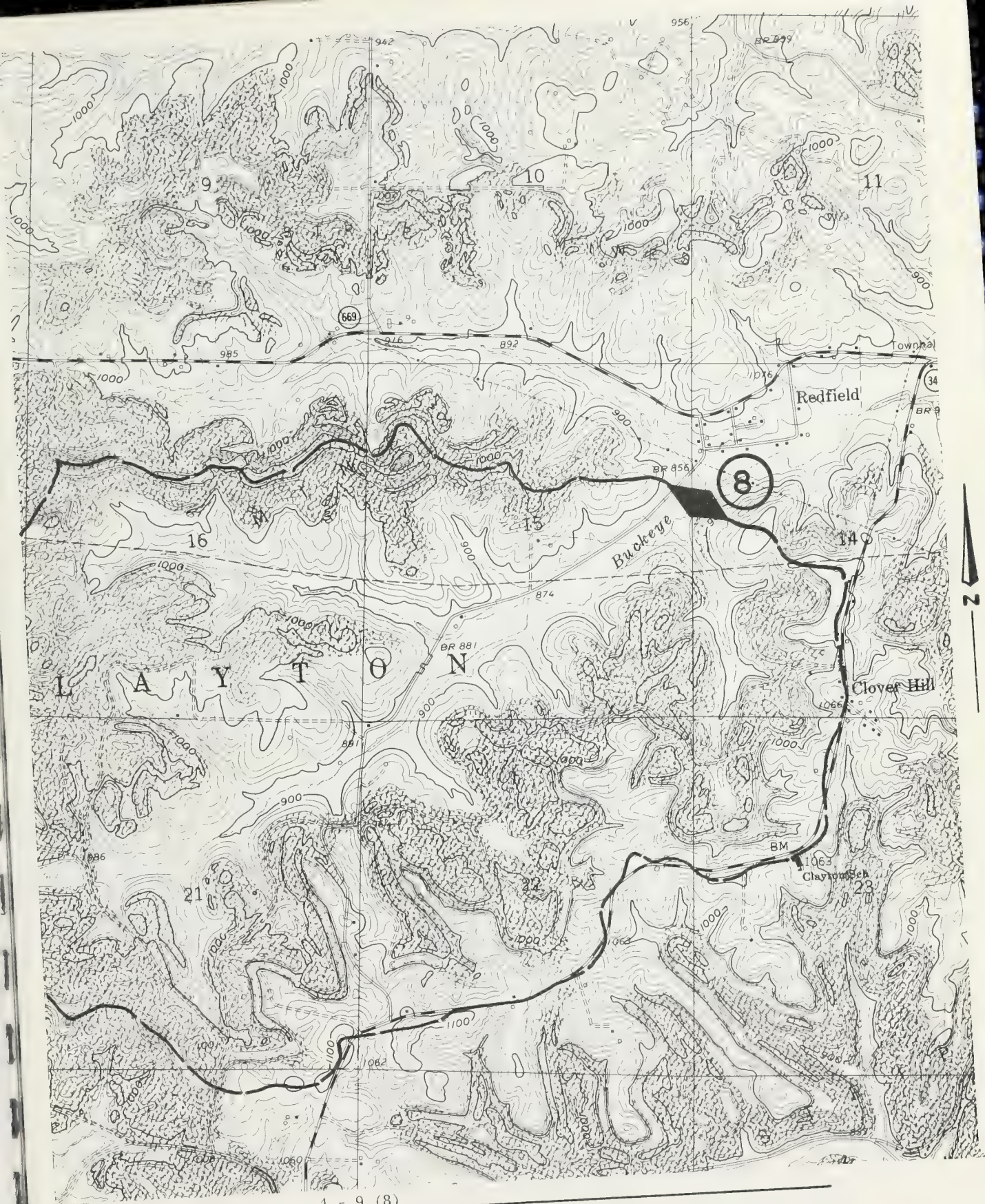
SITE NO. 4-9 (5)
 SUBWATERSHED MOXAHALA JONATHAN
 LOCATION CO. LICKING TWP. BOWLING GREEN
 SEC. 2 NW⁴ OF NE⁴
 QUAD. GLENFORD
 SCALE 1:24000 C.I. 20 ft.



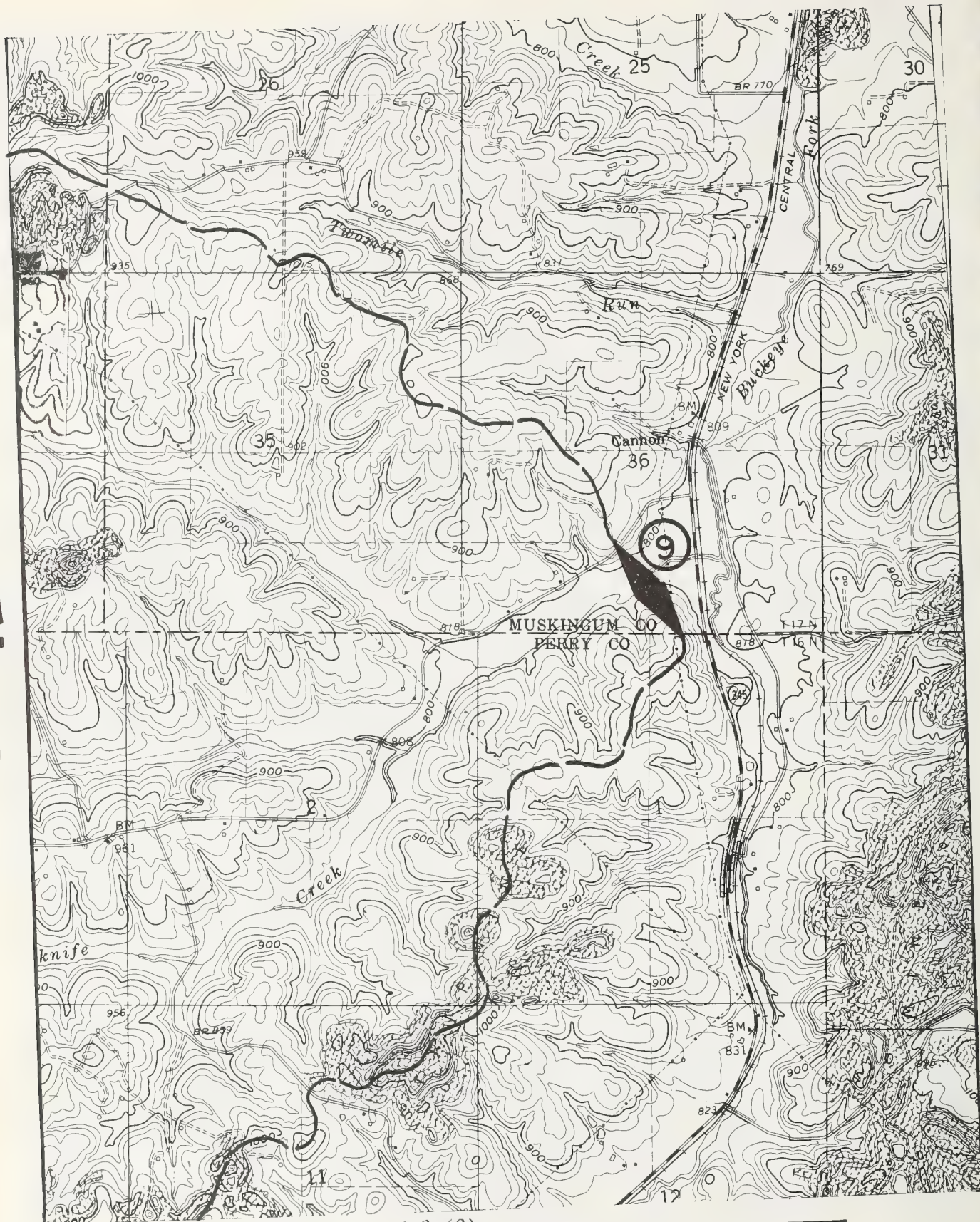
SITE NO. 4-9 (6)
 SUBWATERSHED MOXAHALA - JONATHAN
 LOCATION CO. LUCKING TWP. BOWLING GREEN
 SEC. 15 NW⁴ OF NE⁴
 QUAD. GLENFORD
 SCALE 1:24000 C.I. 20 ft.



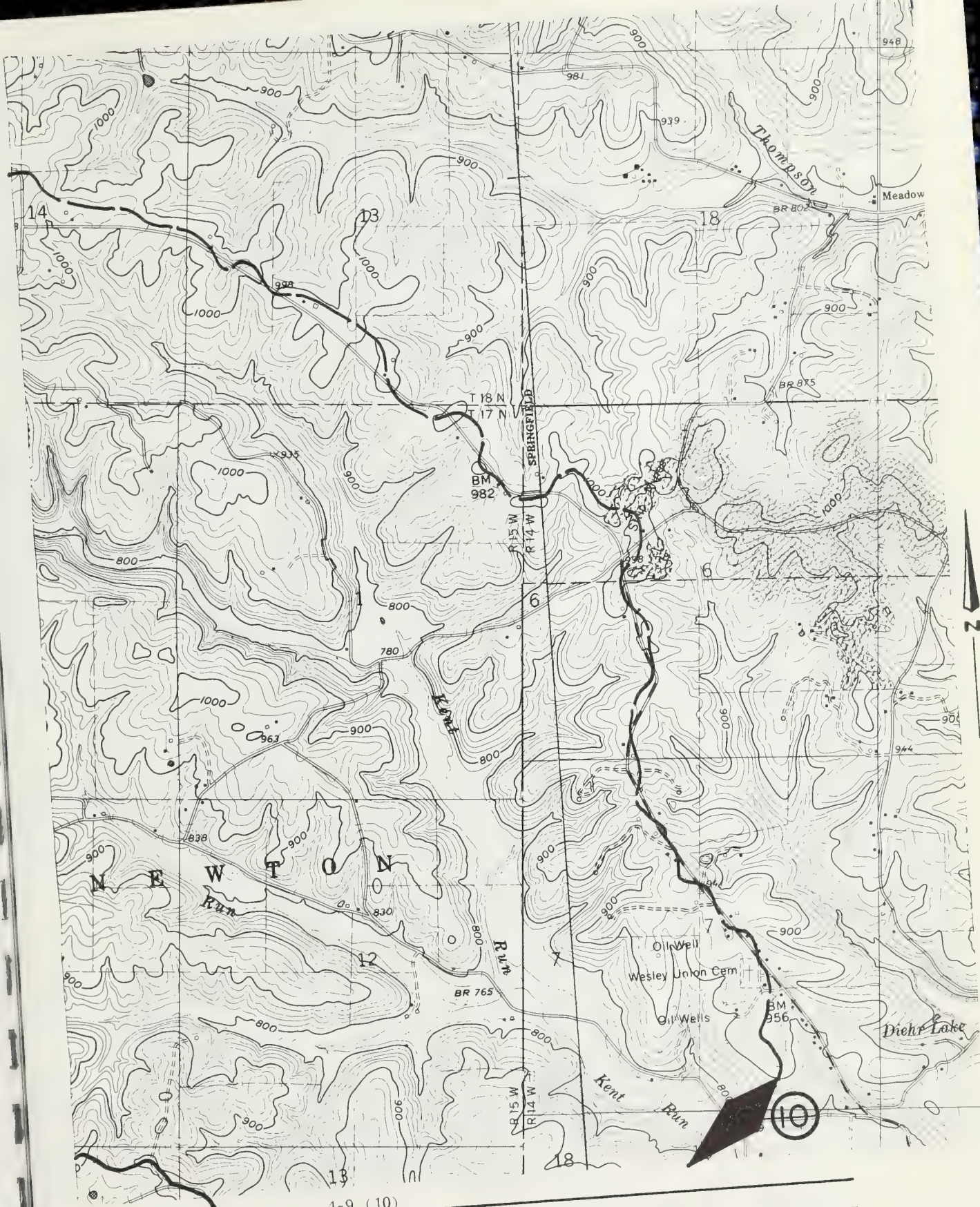
SITE NO. 4-9 (7)
 SUBWATERSHED MOXAHALA - JONATHAN
 LOCATION CO. PERRY TWP. MADISON
 SEC. 29 NE⁴ OF SE⁴
 QUAD. FULTONHAM
 SCALE 1:24000 C.I. 20 ft.



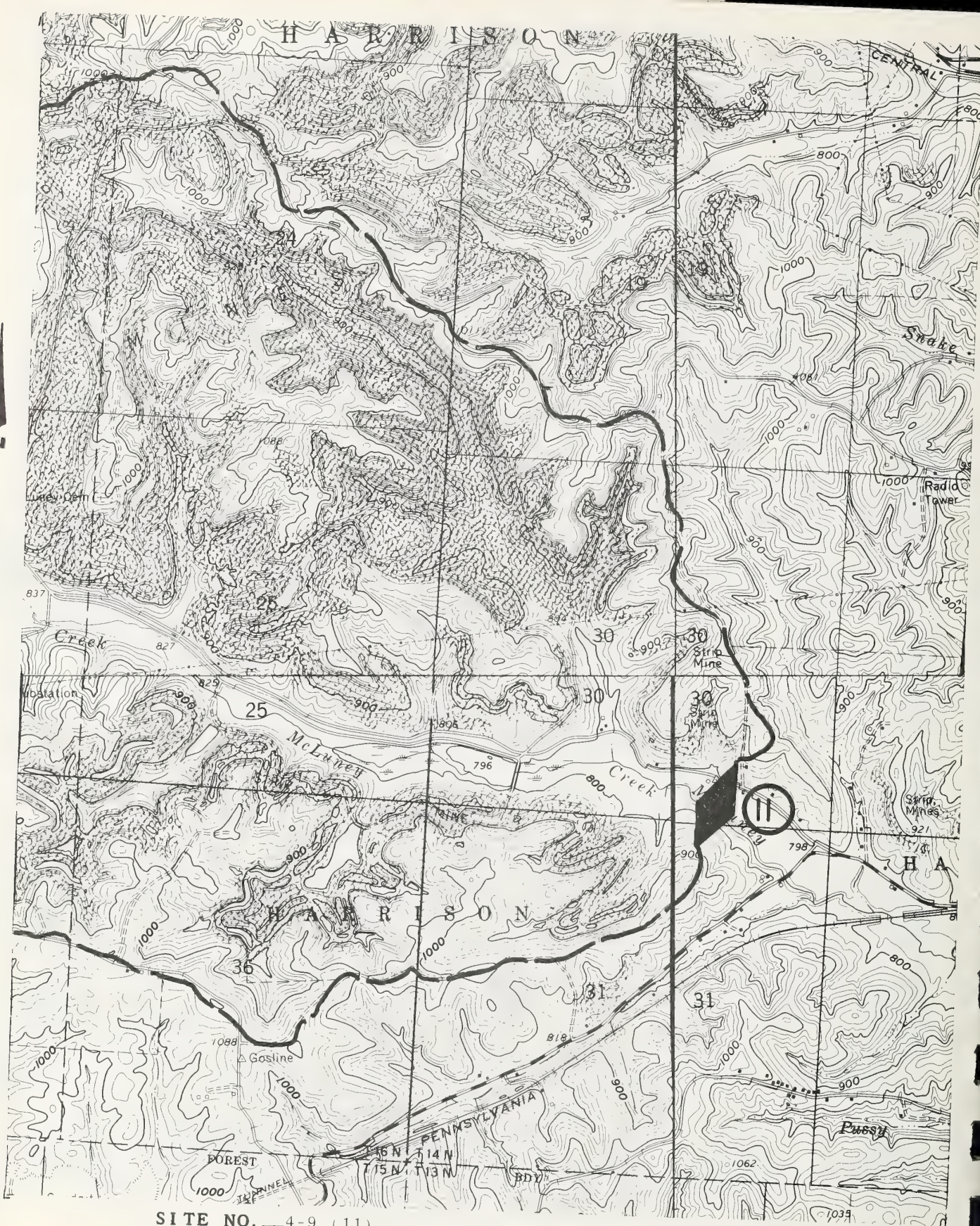
SITE NO. 4 - 9 (8)
 SUBWATERSHED MOXAHALA - JONATHAN
 LOCATION CO. PERRY TWP. CLAYTON
 SEC. 14 SW 1/4 OF NW 1/4 AND SEC 15 SE 1/4 OF NE 1/4
 QUAD. FULTONHAM
 SCALE 1:24000 C.I. 20 FT ft.



SITE NO. 4-9 (9)
 SUBWATERSHED MOXAHALA - JONATHAN
 LOCATION CO. MUSKINGUM TWP. NEWTON
 SEC. 36 SW⁴ OF SE⁴
 QUAD. FULTONHAM
 SCALE 1:24000 C.I. 20 ft.



SITE NO. 4-9 (10)
SUBWATERSHED MOXAHALA - JONATHAN
LOCATION CO. MUSKINGUM TWP. NEWTON
SEC. 18 NW 1/4 OF NE 1/4
QUAD. ZANESVILLE WEST
SCALE 1:24000 C.I. 20 FT. ft.



SITE NO. 4-9 (11)

SUBWATERSHED MOXAHALA - JONATHAN

LOCATION CO. PERRY

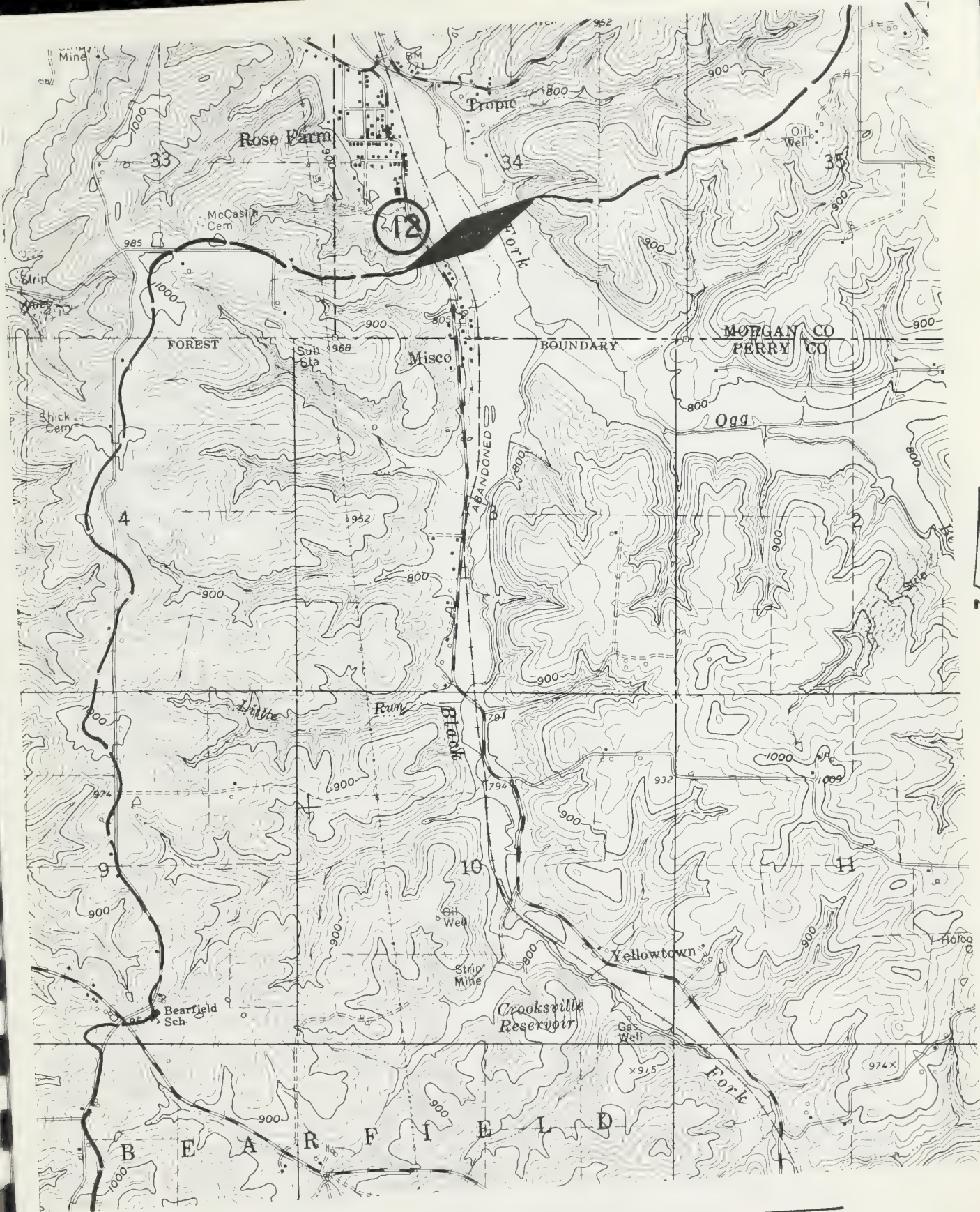
TWP. HARRISON

SEC. 30 NW 1/4 OF NW 1/4

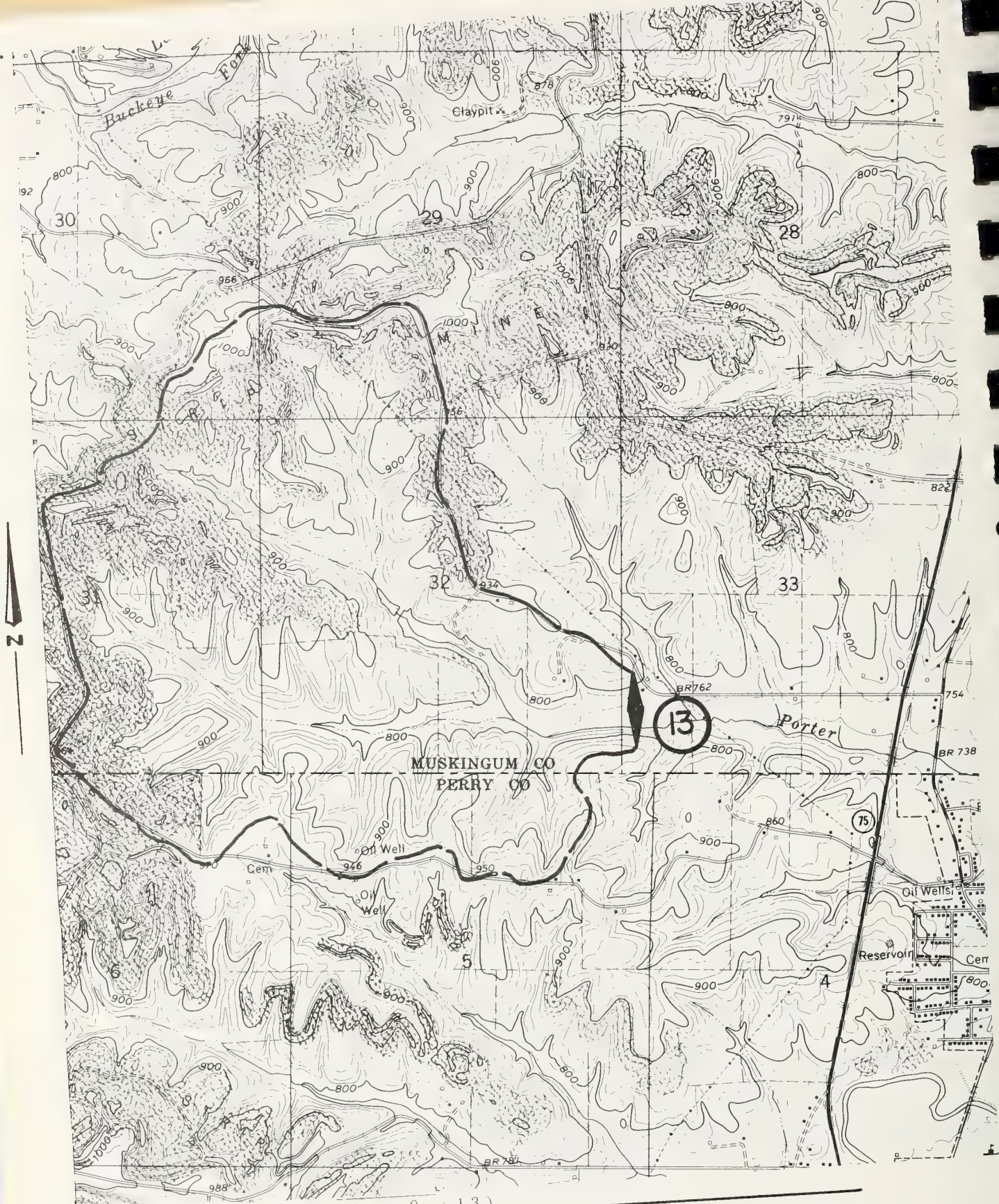
QUAD. DEAVERTOWN

SCALE 1:24000 C.I. 20 FT.

ft.



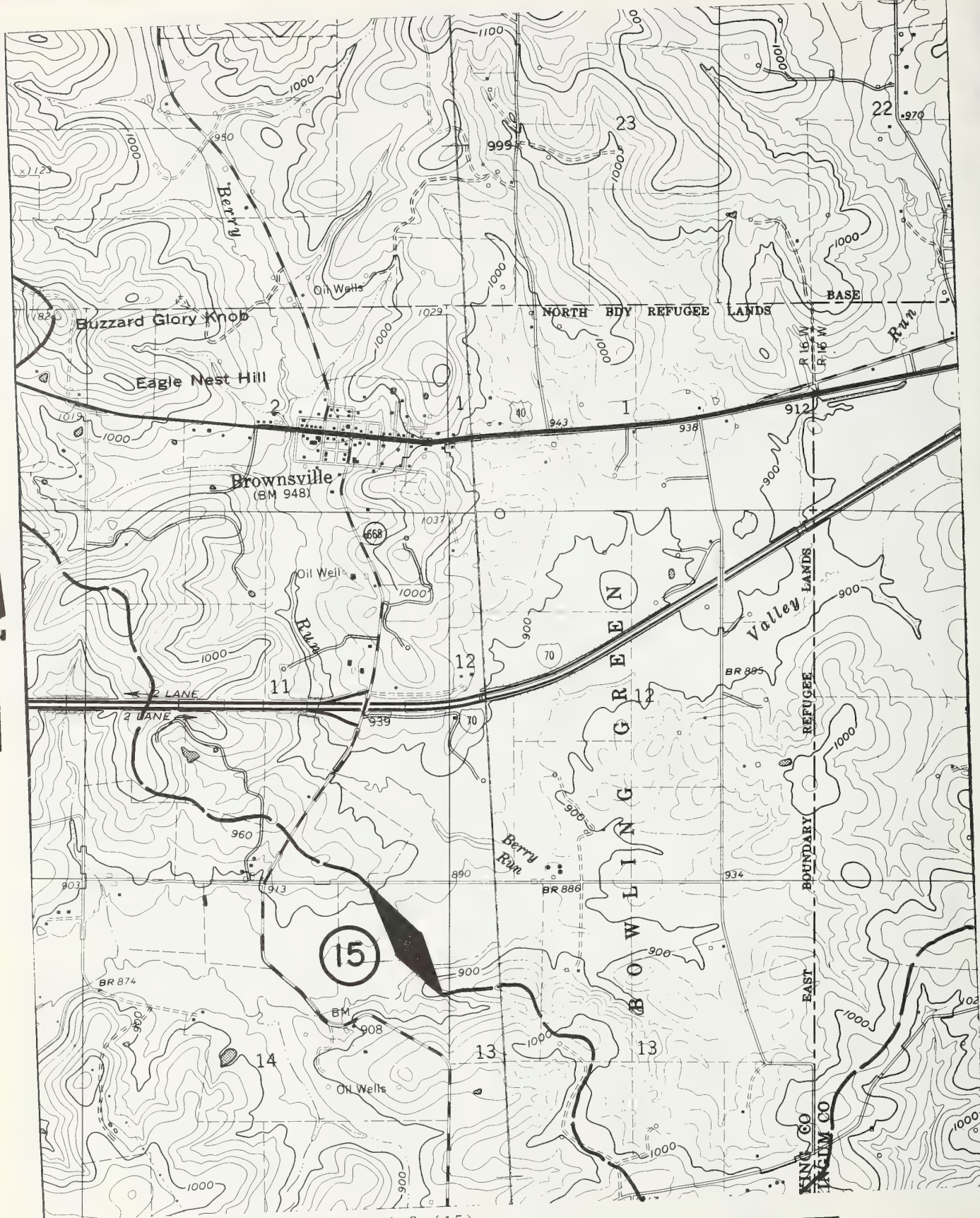
SITE NO. 42 (12)
 SUBWATERSHED MOXAHAD CNA WVA
 LOCATION CO. MORGAN TWP. YORK
 SEC. 12 NE 1/4 OF SW 1/4
 QUAD. DEAVERTOWN ft.
 SCALE 1:24000 C.I. 20 FT.



SITE NO. 4 - 9 (13)
SUBWATERSHED MOXAHALA - JONATHAN
LOCATION CO. MUSKINGUM TWP. NEWTON
SEC. 33 SW 1/4 OF SW 1/4
QUAD. CROOKSVILLE
SCALE 1:24000 C.I. 20 FT. ft.



SITE NO. 4-9 (14)
SUBWATERSHED MOXAHALA-JONATHAN
LOCATION CO. MUSKINGUM TWP. NEWTON
SEC. 10 NW⁴ OF NW⁴
QUAD. ZANESVILLE WEST
SCALE 1:24000 C.I. 20 ft.



SITE NO. 4-9 (15)
 SUBWATERSHED MAXAHALA - JONATHAN
 LOCATION CO. LICKING TWP. BOWLING GREEN
 SEC. 14 NE⁴ OF NE⁴
 QUAD. GLENFORD
 SCALE 1:24000 C.I. 20 ft.

**KOKOSING RIVER
SUB BASIN**



MUSKINGUM RIVER BASIN
KOKOSING RIVER SUB BASIN
 STATE: OHIO

KNOX, RICHLAND, ASHLAND COUNTIES
 SCALE 1/417,000

UPPER KOKOSING WSHD

[illegible]

POTENTIAL RESERVOIR SITE SIGN AND COST SUMMARY NO. 2

OHIO MUSKINGUM RIVER BASIN										KOKOSING SUBBASIN										UPPER KOKOSING																																																																																																																																																																																													

ELEVATION										HGT										STORAGE										SURFACE										FILL										INSTALLATION COST										UNIT COST										GROSS																																																																																																																																											
(FT MSL)										*DAM										(AC-FT)										*AREA										*YDS										(\$1000)										*YIELD										*IMGD																																																																																																																																											

NORM										ENERG										DSGN										TOP										*MAX										BEN										NORM										TEMP										TOTAL										*NORM										DSGN										VOL										*CONST										ENGR										L/R										PROJ										TOTAL										*AC-FT										ACRE										AC-FT										FOR									
POOL										SPKY										HIGH										OF										*HGT										USE										POOL										HIGH										*WTR										CREST										E.S.										*POOL										HIGH										*ADM										*STORE										BEN										*2										*ALLOC										ALLOC										STORE										P.C.									

POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 3

OHIO MUSKINGUM RIVER BASIN										KOKOSING SUBBASIN										UPPER KOKOSING WSHD									
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[illegible]

POTENTIAL USE ABBREVIATIONS				ALL DATA BASED ON PRELIMINARY RESERVOIR LOCATIONS.	
FC	FLOOD CONTROL	LF	LOW FLOW AUGMENTATION	SD	SEDIMENT CONTROL
FH	FISH AND WILDLIFE	LL	LAKE LEVEL REGULATION	WQ	WATER QUALITY CONTROL
IR	IRRIGATION	RE	RECREATION	WS	WATER SUPPLY
					PRICE BASE YEAR 1970

BIG RUN WSHD

[illegible]

[illegible]

POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 2

OHIO MUSKINGUM RIVER BASIN

KOKOSING SUBBASIN

KOKOSING WSHD

 ELEVATION *HGT * * * * *
 (FT MSL) * (FT) * * * * *

 STORAGE * SURFACE * FILL * INSTALLATION COST * UNIT COST * GROSS * YIELD *
 (AC-FT) * (AC) * (1000) * (\$1000) * * (MGD)

 NORM EMERG DSGN TOP * MAX * BEN NORM TEMP TOTAL * NORM DSGN * VOL * CONST ENGR L/R PROJ TOTAL * AC-FT * ACRE * AC-FT * FOR
 POOL SPWY HIGH OF * HGT * USE POOL FLOOD E.S. * POOL HIGH * * ADM * STORE BEN * BEN * 2
 CREST WATER DAM * * CREST * WTR * * * * * ALLOC ALLOC STORE * P.C.

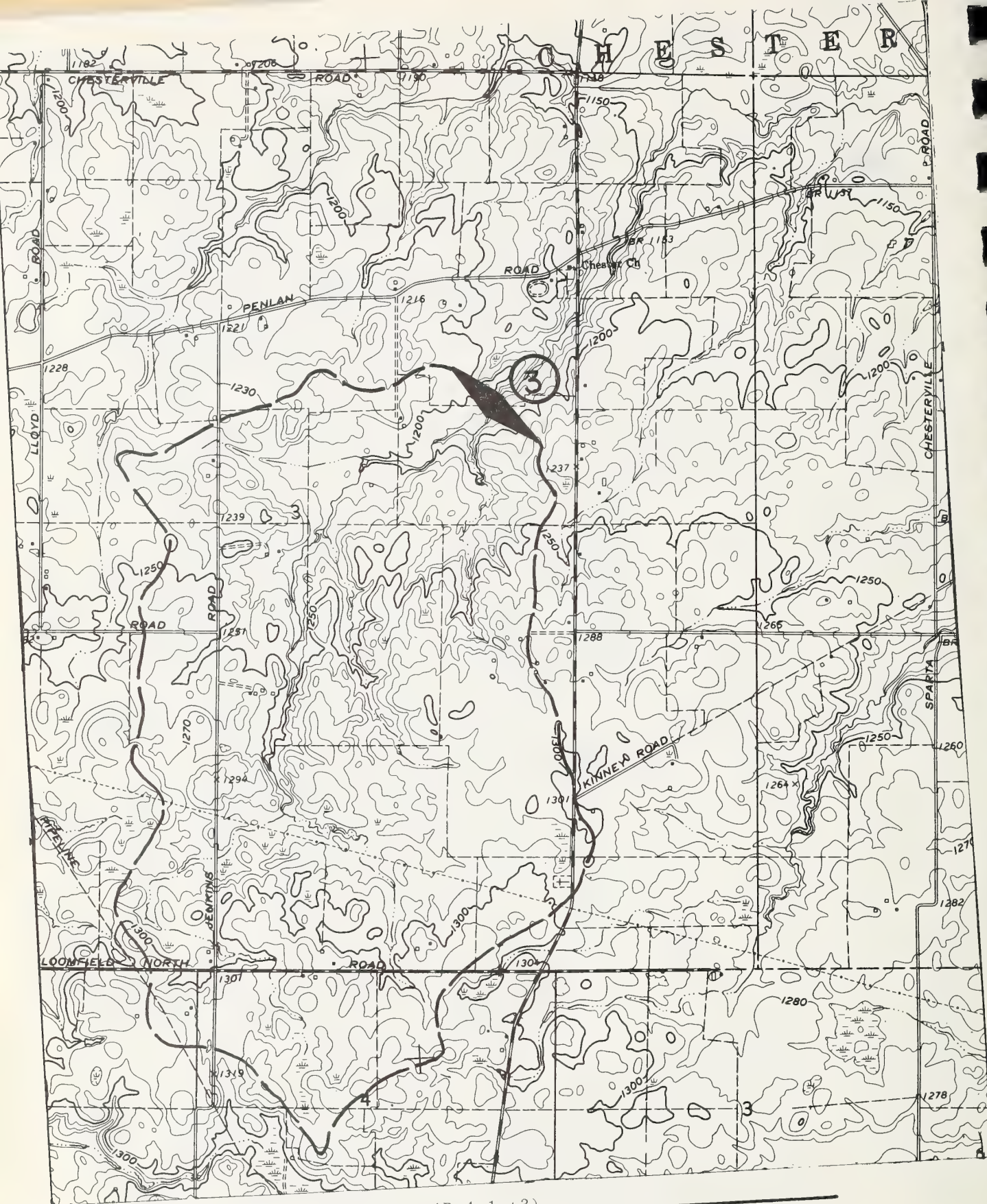
SITE SHADLEY VALLEY CREEK (27+) B DA= 3.98 SQ.MI. ELEV. BOTTOM C/L PROFILE= 1045.0 POTENTIAL USES-FC RE

1058.4 1072.9 1074 1082 * 37 * 113 591 724 * 16 77 * 92 * 202 16 42 59 319* 441 *
 1077.8 1083.4 1084 1090 * 45 * 1000 1112 593 1727 * 91 126 * 156 * 315 21 71 74 481* 278 3060 481* 1.01
 1085.3 1089.6 1090 1096 * 51 * 1849 1962 595 2578 * 132 162 * 204 * 394 25 89 79 588* 228 3181 318* 1.57
 1091.1 1094.6 1095 1100 * 55 * 2698 2810 597 3429 * 167 191 * 253 * 471 29 114 86 700* 204 3297 260* 2.06
 1099.9 1102.4 1103 1107 * 62 * 4396 4509 600 5129 * 221 242 * 346 * 612 37 144 110 903* 176 3511 205* 2.12

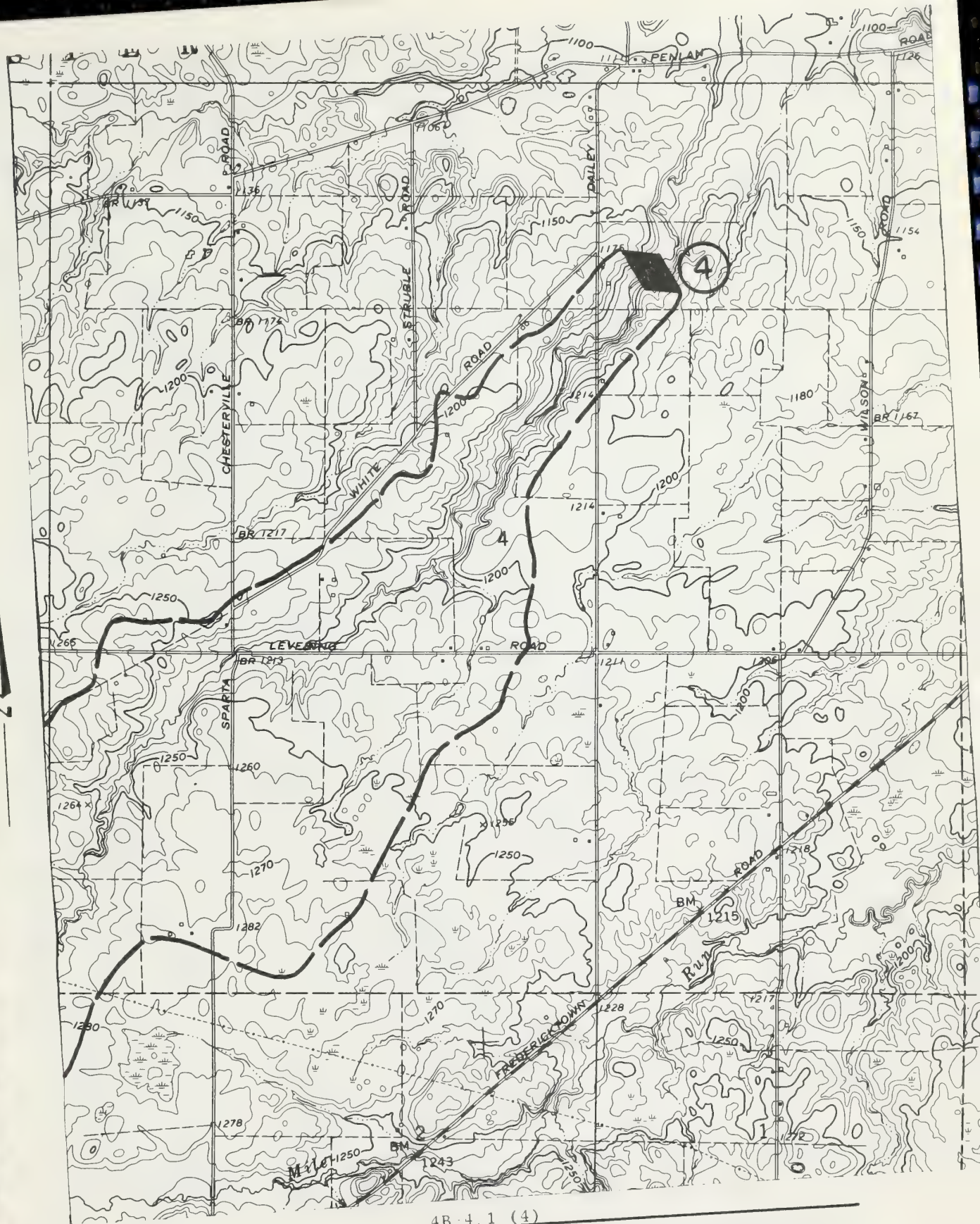
SITE E-BR-JELLOWAY CREEK (30) C DA= 3.87 SQ.MI. ELEV. BOTTOM C/L PROFILE= 989.0 POTENTIAL USES-FC RE

998.0 1011.0 1014 1019 * 30 * 128 662 814 * 27 91 * 98 * 217 17 33 62 328* 403 *
 1012.5 1019.4 1022 1029 * 40 * 800 928 662 1614 * 85 130 * 181 * 375 24 49 78 526* 326 3059 658* 0.85
 1020.5 1025.6 1028 1036 * 47 * 1626 1754 662 2440 * 120 171 * 274 * 530 32 66 95 723* 296 4008 445* 1.39
 1026.5 1030.5 1033 1043 * 54 * 2451 2579 662 3266 * 159 202 * 375 * 687 41 81 124 933* 286 4405 381* 1.87
 1035.3 1038.3 1041 1049 * 60 * 4102 4230 662 4917 * 216 251 * 485 * 866 52 102 156 1176* 239 4535 287* 1.90

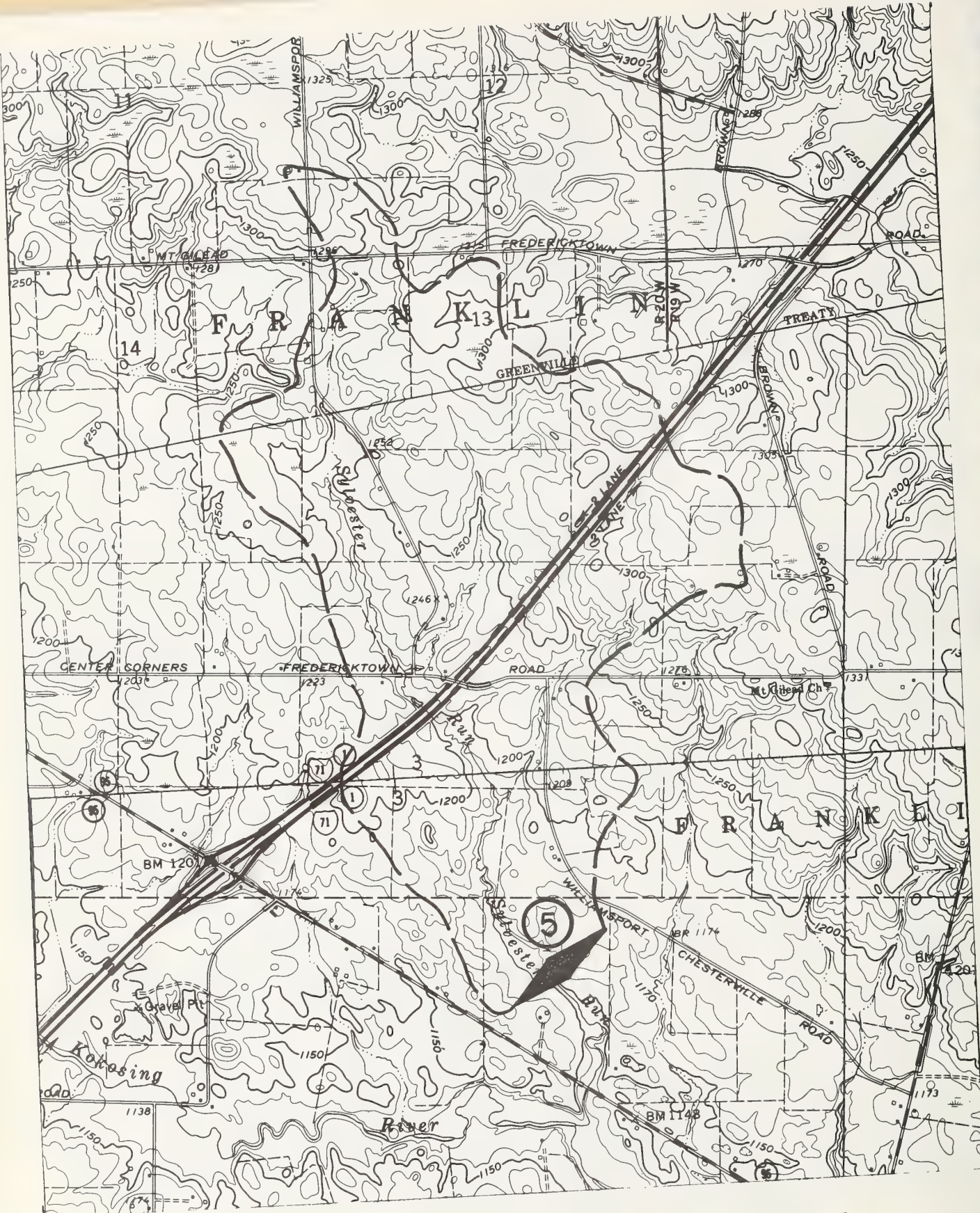
FC FLOOD CONTROL LF LOW FLOW AUGMENTATION SD SEDIMENT CONTROL ALL DATA BASED ON PRELIMINARY
 FW FISH AND WILDLIFE LL LAKE LEVEL REGULATION WQ WATER QUALITY CONTROL RESERVOIR LOCATIONS.
 IR IRRIGATION RE RECREATION WS WATER SUPPLY PRICE BASE YEAR 1970



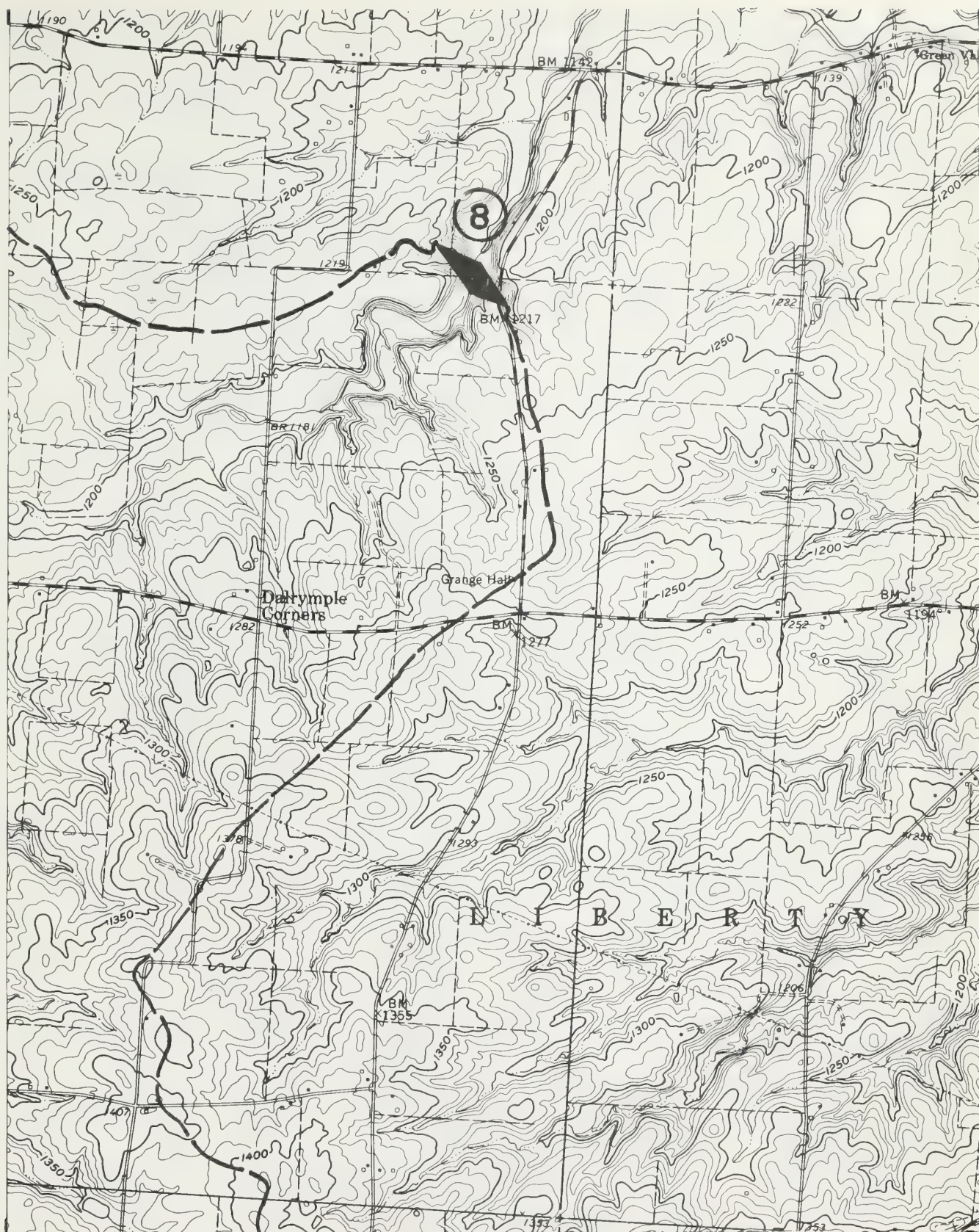
SITE NO. 4B-4.1 (3)
 SUBWATERSHED KOKOSING RIVER (UPPER KOKOSING)
 LOCATION CO. MORROW TWP. CHESTER
 SEC. LOT 3 SW⁴ OF NE⁴
 QUAD. CHESTERVILLE
 SCALE 1:24000 C.I. 10 ft.



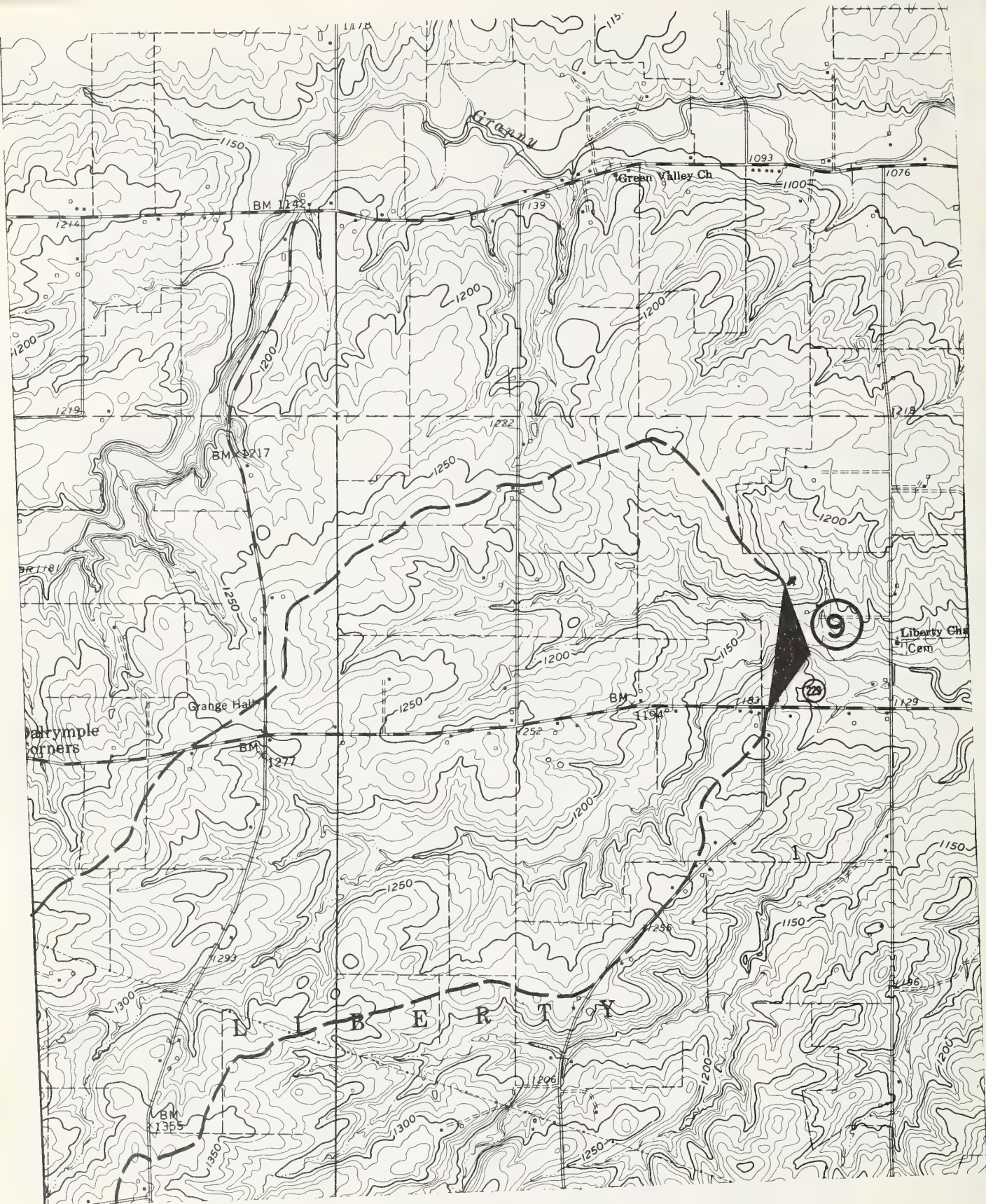
SITE NO. 4B-4.1 (4)
 SUBWATERSHED KOKOSING RIVER (UPPER KOKOSING)
 LOCATION CO. MORROW TWP. CHESTER
 SEC. 4 NW⁴ OF NE⁴
 QUAD. CHESTERVILLE
 SCALE 1:24000 C.I. 10 ft.



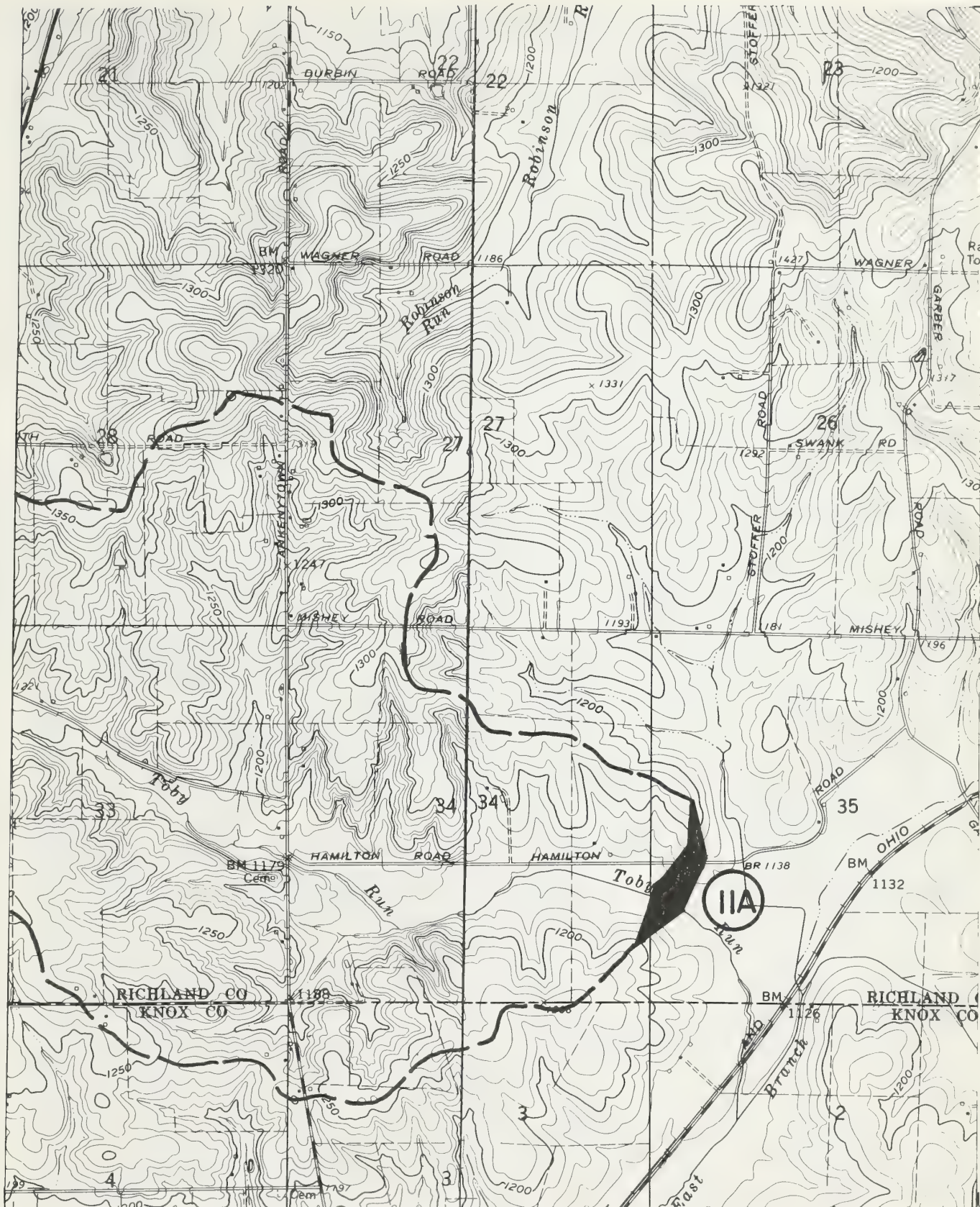
SITE NO. 4B-4.1 (5)
 SUBWATERSHED KOKOSING RIVER (UPPER KOKOSING)
 LOCATION CO. MORROW TWP. CHESTER
 SEC. LOT 2 NW⁴ OF NE⁴
 QUAD. CHESTERVILLE
 SCALE 1:24000 C.I. 10 ft.



SITE NO. 4B-4.1 (8)
 SUBWATERSHED KOKOSING RIVER (UPPER KOKOSING)
 LOCATION CO. KNOX TWP. WAYNE
 SEC. LOT 3 SE⁴ OF SE⁴
 QUAD. FREDRICKSTOWN
 SCALE 1:24000 C. I. 10 ft.



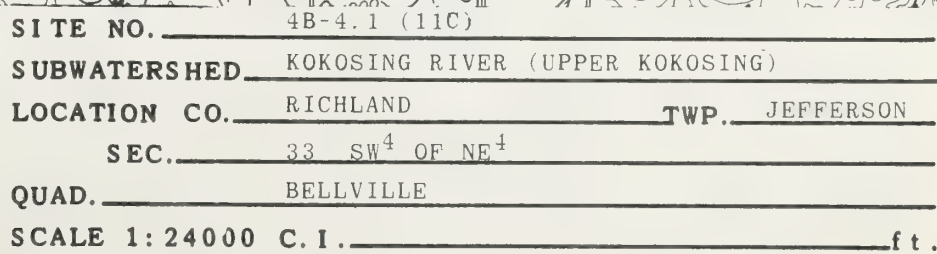
SITE NO. 4B-4.1 (9)
 SUBWATERSHED KOKOSING RIVER (UPPER KOKOSING)
 LOCATION CO. KNOX TWP. LIBERTY
 SEC. 1 SE⁴ OF NW⁴
 QUAD. FREDERICKTOWN
 SCALE 1:24000 C.I. 10 ft.

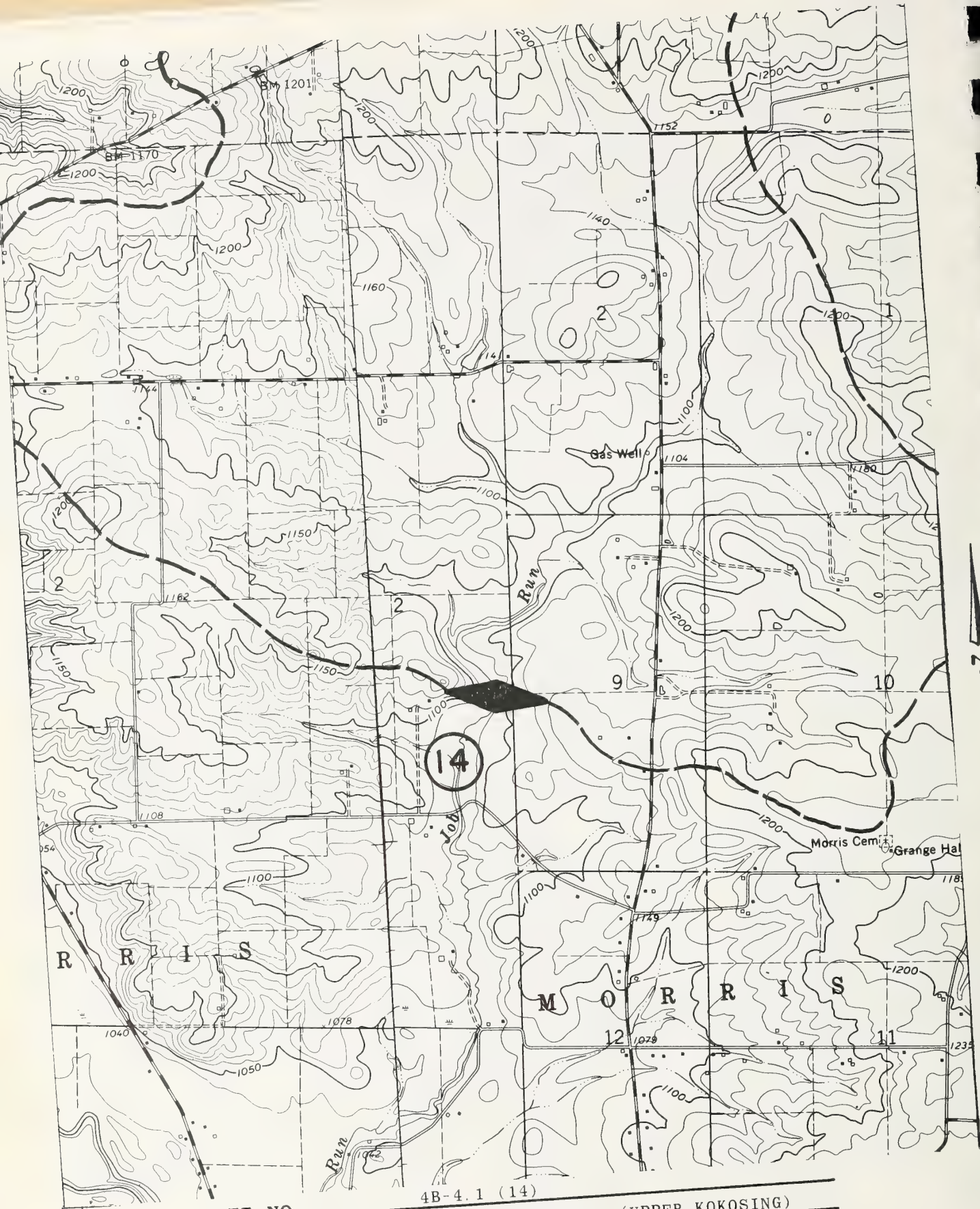


SITE NO. 4B-4.1 (11A)
 SUBWATERSHED KOKOSING RIVER (UPPER KOKOSING)
 LOCATION CO. RICHLAND TWP. JEFFERSON
 SEC. 35 NW⁴ OF SW⁴
 QUAD. BUTLER
 SCALE 1:24000 C. I. 10 ft.

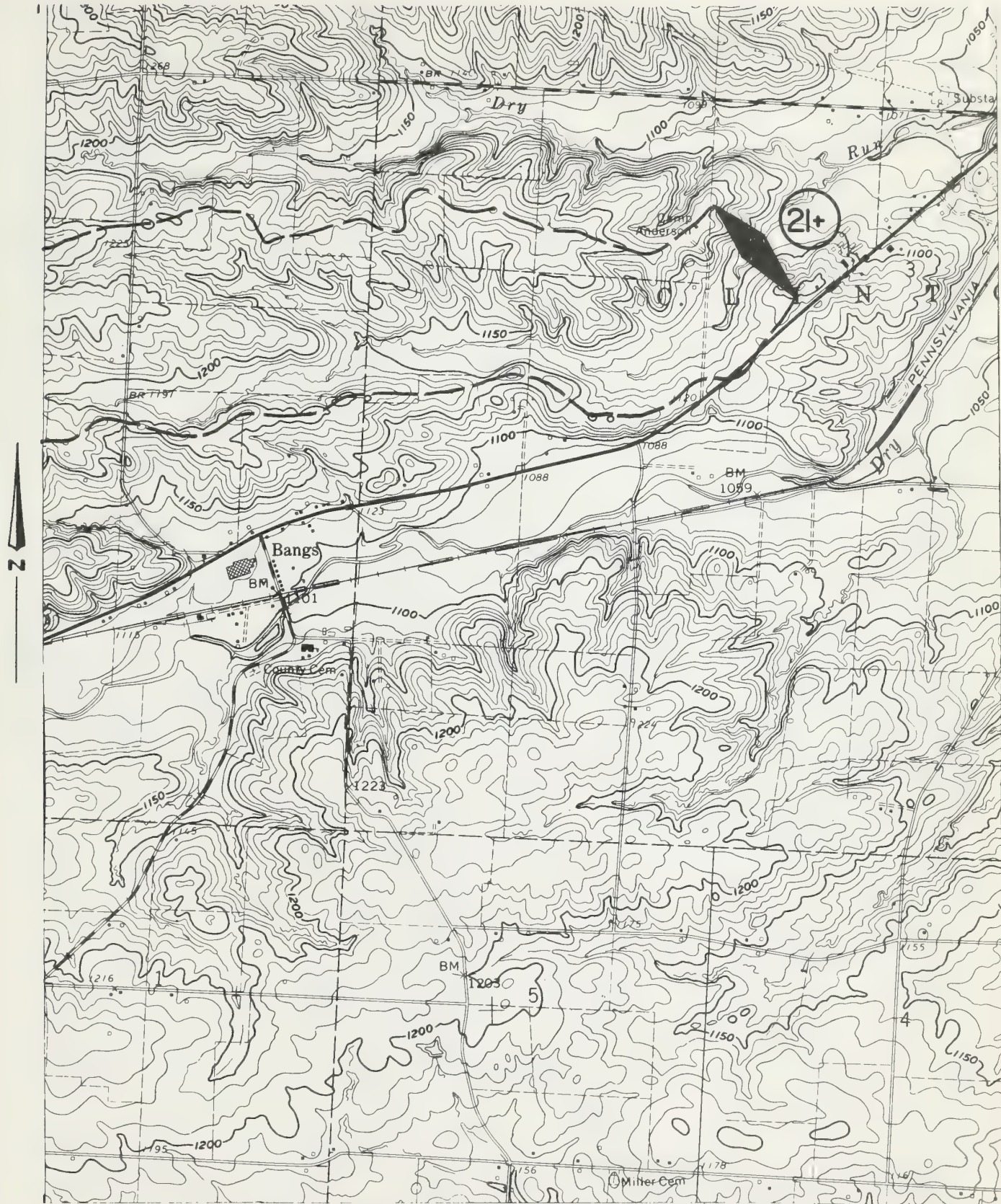


SITE NO. 4B-4.1 (11B)
 SUBWATERSHED KOKOSING RIVER (UPPER KOKOSING)
 LOCATION CO. RICHLAND TWP. JEFFERSON
 SEC. 33 NE⁴ OF SE⁴
 QUAD. BELLVILLE
 SCALE 1:24000 C.I. 10 ft.

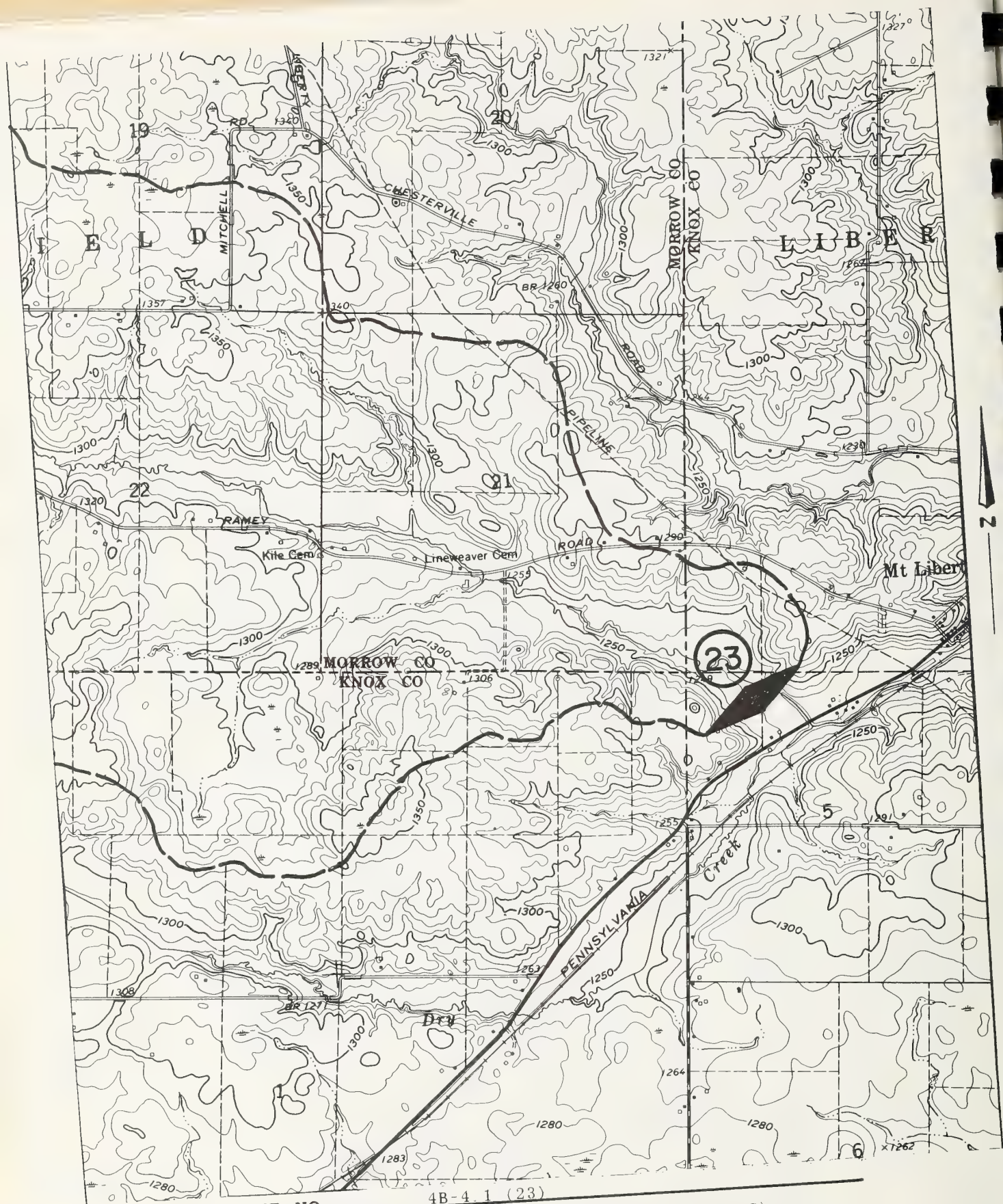




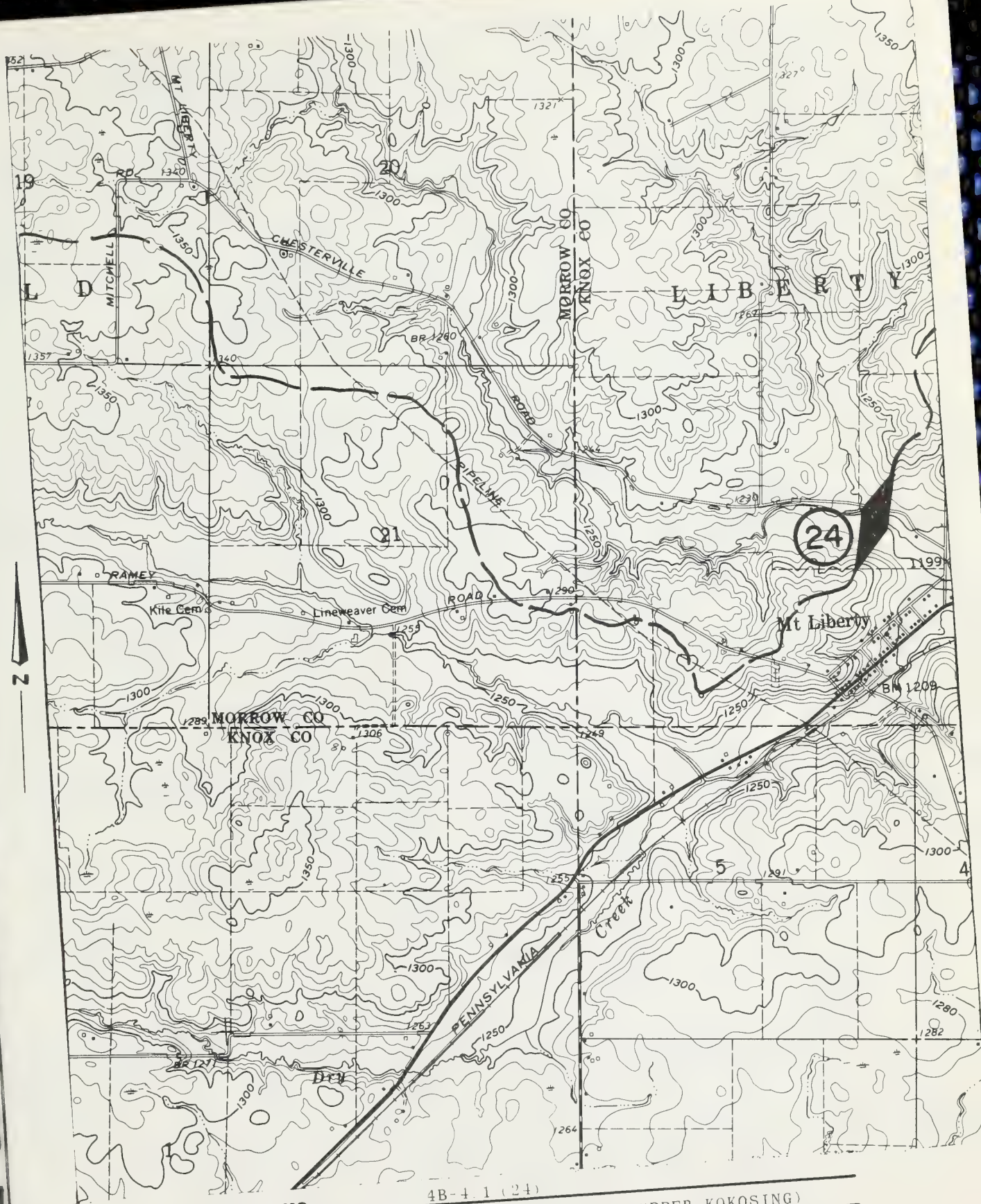
SITE NO. 4B-4.1 (14)
 SUBWATERSHED KOKOSING RIVER (UPPER KOKOSING)
 LOCATION CO. KNOX TWP. MORRIS
 SEC. 2 NE⁴ OF SE⁴
 QUAD. MT. VERNON 10 ft.
 SCALE 1:24000 C.I.



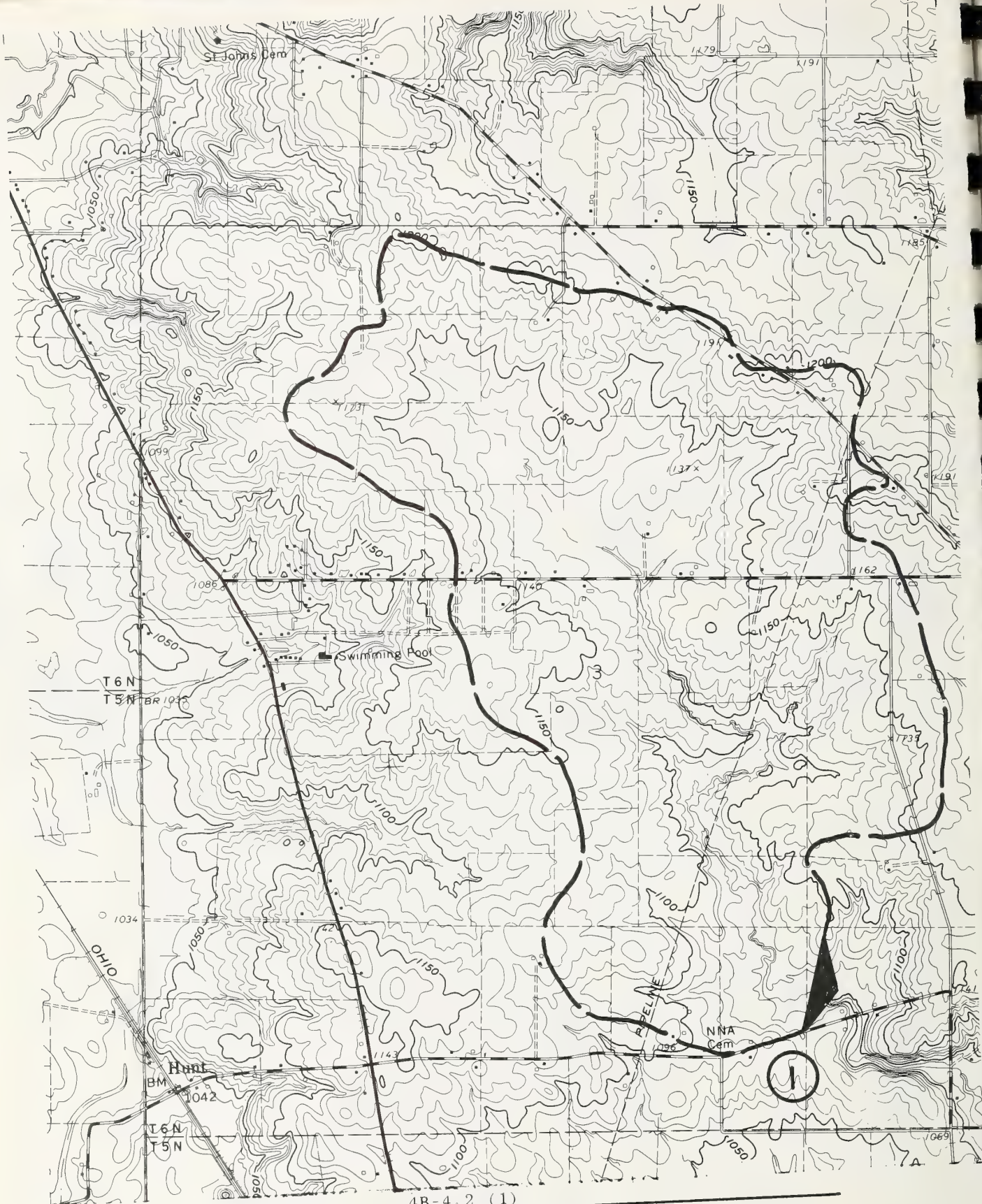
SITE NO. 4B-4.1 (21+)
 SUBWATERSHED KOKOSING RIVER (UPPER KOKOSING)
 LOCATION CO. KNOX TWP. CLINTON
 SEC. 3 SW⁴ OF NW⁴
 QUAD. HOMER
 SCALE 1:24000 C. I. 10 ft.



SITE NO. 4B-4.1 (23)
 SUBWATERSHED KOKOSING RIVER (UPPER KOKOSING)
 LOCATION CO. KNOX TWP. MILFORD
 SEC. 5 NW⁴ OF NW⁴
 QUAD. CENTERBURG
 SCALE 1:24000 C.I. 10 ft.



SITE NO. 4B-4.1 (24)
 SUBWATERSHED KOKOSING RIVER (UPPER KOKOSING)
 LOCATION CO. KNOX TWP. LIBERTY
 SEC. 3 SW $\frac{1}{4}$ OF SW $\frac{1}{4}$
 QUAD. CENTERBURG
 SCALE 1:24000 C.I. 10 ft.



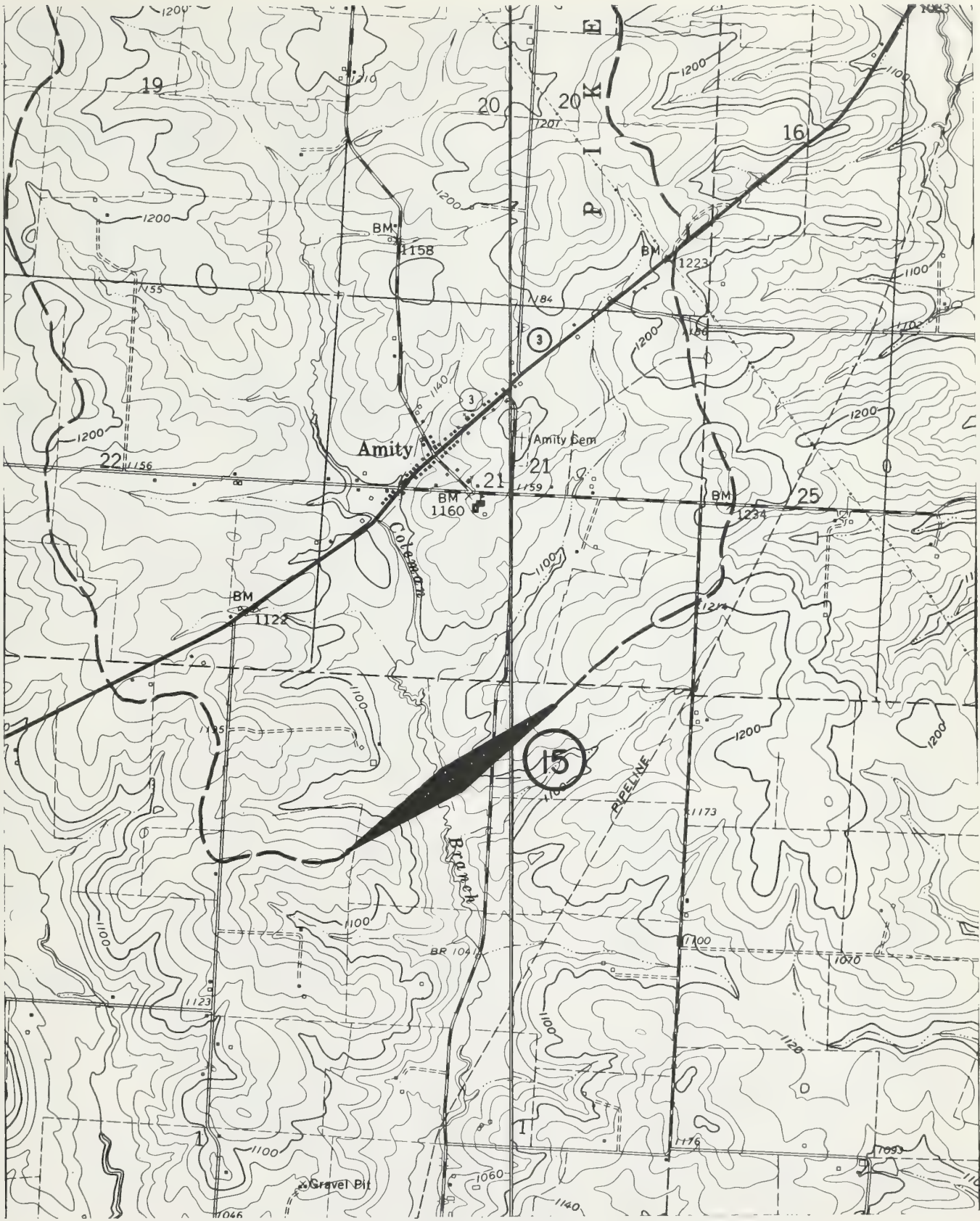
SITE NO. 4B-4.2 (1)
 SUBWATERSHED KOKOSING RIVER (BIG RUN)
 LOCATION CO. KNOX TWP. PLEASANT
 SEC. LOT 3 SE⁴ OF SE⁴
 QUAD. HUNT
 SCALE 1: 24000 C.I. 10 ft.



SITE NO. 4B-4.2 (2)
 SUBWATERSHED KOKOSING RIVER (BIG RUN)
 LOCATION CO. KNOX TWP. CLAY
 SEC. 7 NE 1/4 OF SW 1/4
 QUAD. MARTINSBURG
 SCALE 1:24000 C.I. 20 FT. ft.



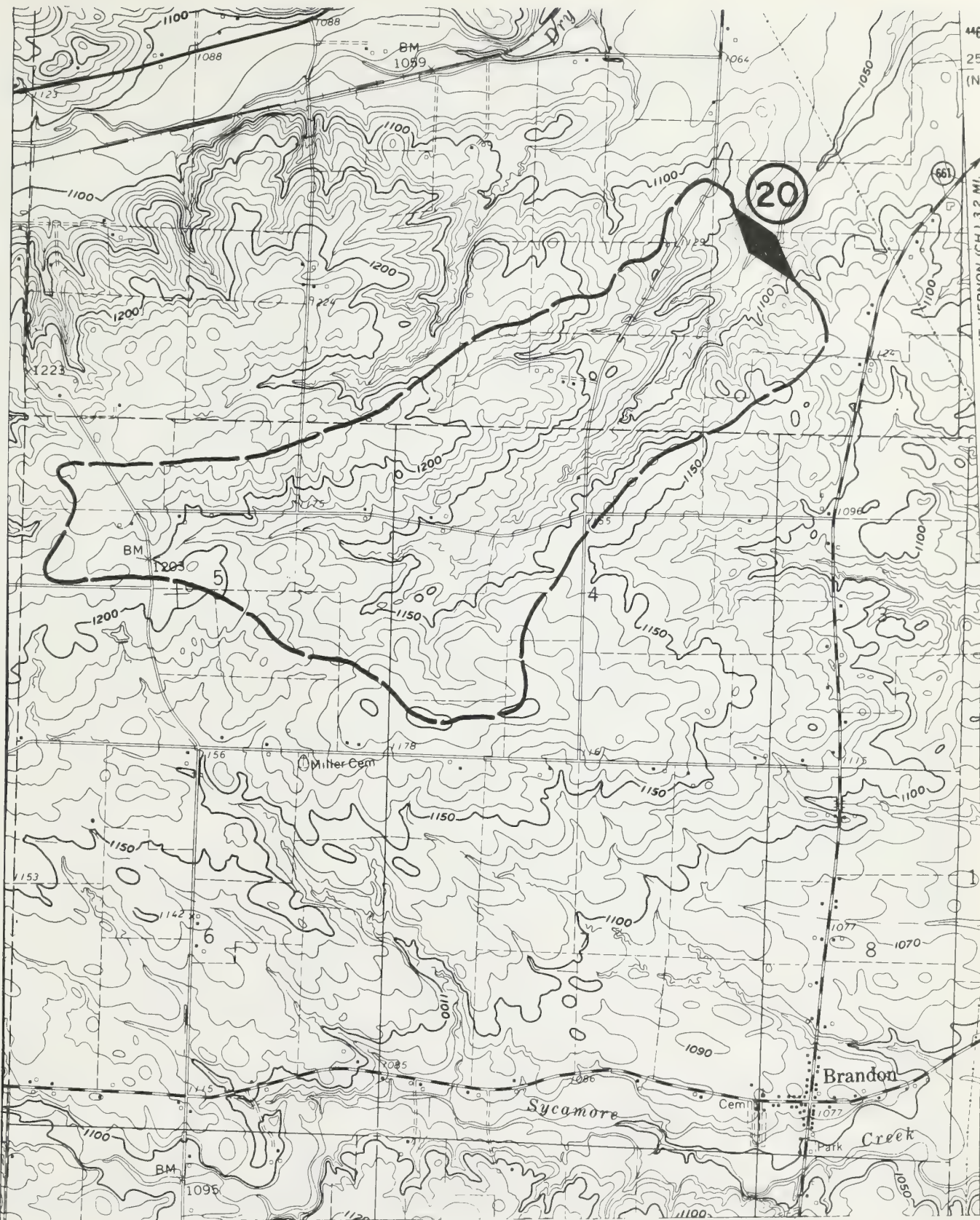
SITE NO. 4B-4 (12)
 SUBWATERSHED KOKOSING RIVER
 LOCATION CO. KNOX TWP. PIKE
 SEC. 18 NE⁴ OF SW⁴
 QUAD. MT. VERNON
 SCALE 1:24000 C.1. 20 ft.



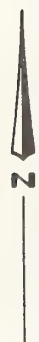
SITE NO. 4B-4 (15)
SUBWATERSHED KOKOSING RIVER
LOCATION CO. KNOX TWP. MONROE
SEC. 1 NE⁴ OF NE⁴
QUAD. MT. VERNON
SCALE 1:24000 C. I. 20 ft.



SITE NO. 4B-4 (16)
 SUBWATERSHED KOKOSING RIVER
 LOCATION CO. KNOX TWP. COLLEGE
 SEC. 1 NW⁴ OF NW⁴
 QUAD. MT. VERNON
 SCALE 1:24000 C.I. 20 ft.



SITE NO. 4B-4 (20)
 SUBWATERSHED KOKOSING RIVER
 LOCATION CO. KNOX TWP. CLINTON
 SEC. 3 SW⁴ OF SE⁴
 QUAD. HOMER
 SCALE 1:24000 C.I. 10 ft.



SITE NO. 4B-4 (27 +)
SUBWATERSHED KOKOSING
LOCATION CO. KNOX TWP. BROWN
SEC. LOT 1 NE⁴ OF NE⁴
QUAD. JELLOWAY
SCALE 1:24000 C. I. 20 ft



SITE NO. 4B-4 (30)
 SUBWATERSHED KOKOSING RIVER
 LOCATION CO. KNOX TWP. UNION
 SEC. 24 SE⁴ OF SE⁴
 QUAD. BRINKHAVEN
 SCALE 1:24000 C.I. 20 ft.

**WAKATOMIKA CREEK
SUB BASIN**



**MUSKINGUM RIVER BASIN
WAKATOMIKA CREEK SUB BASIN**

STATE: OHIO

KNOX, COSHOCTON, LICKING, MUSKINGUM COUNTIES

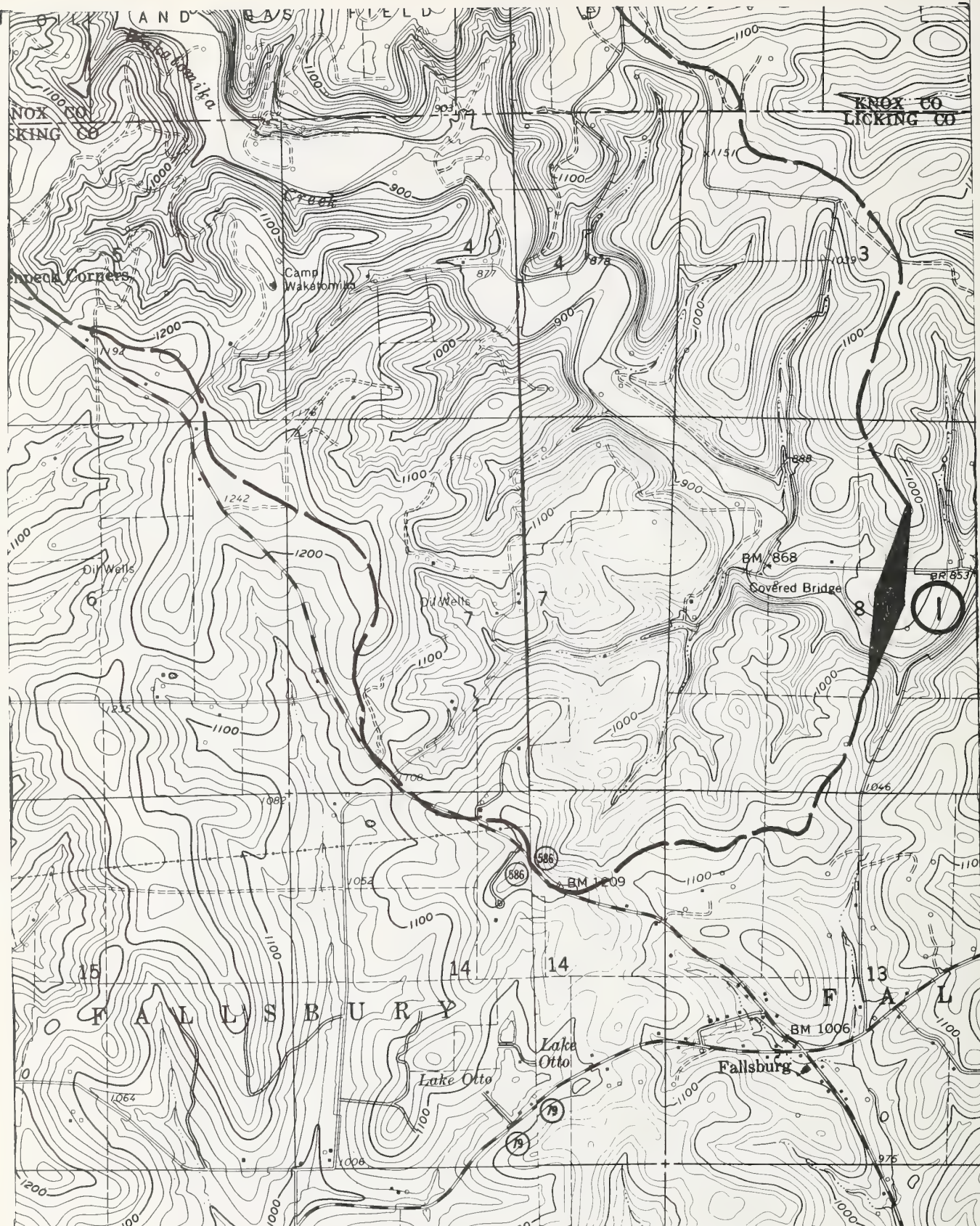
SCALE 1/417,000

POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 1

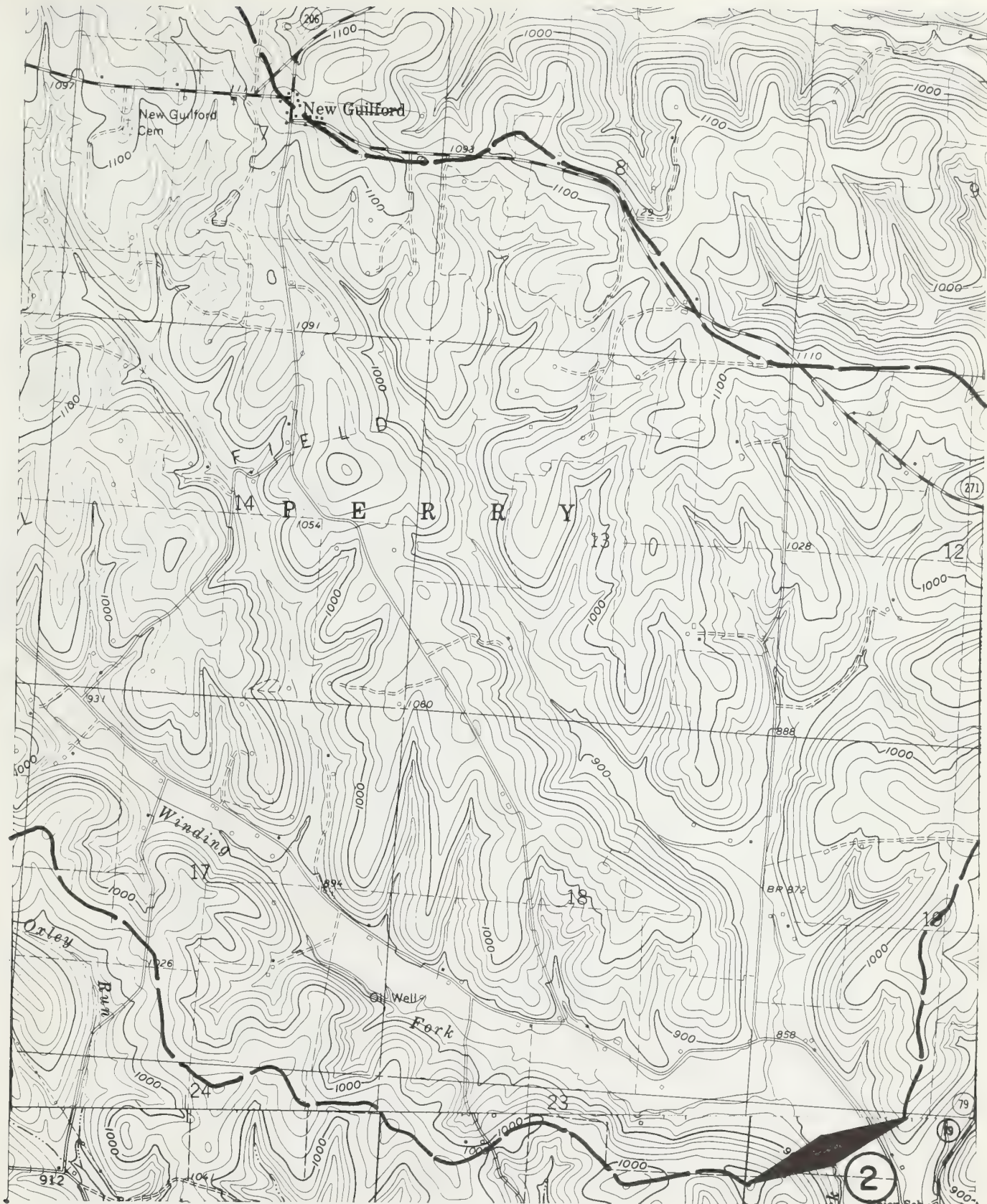
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WAKATOMIKA CREEK WS.

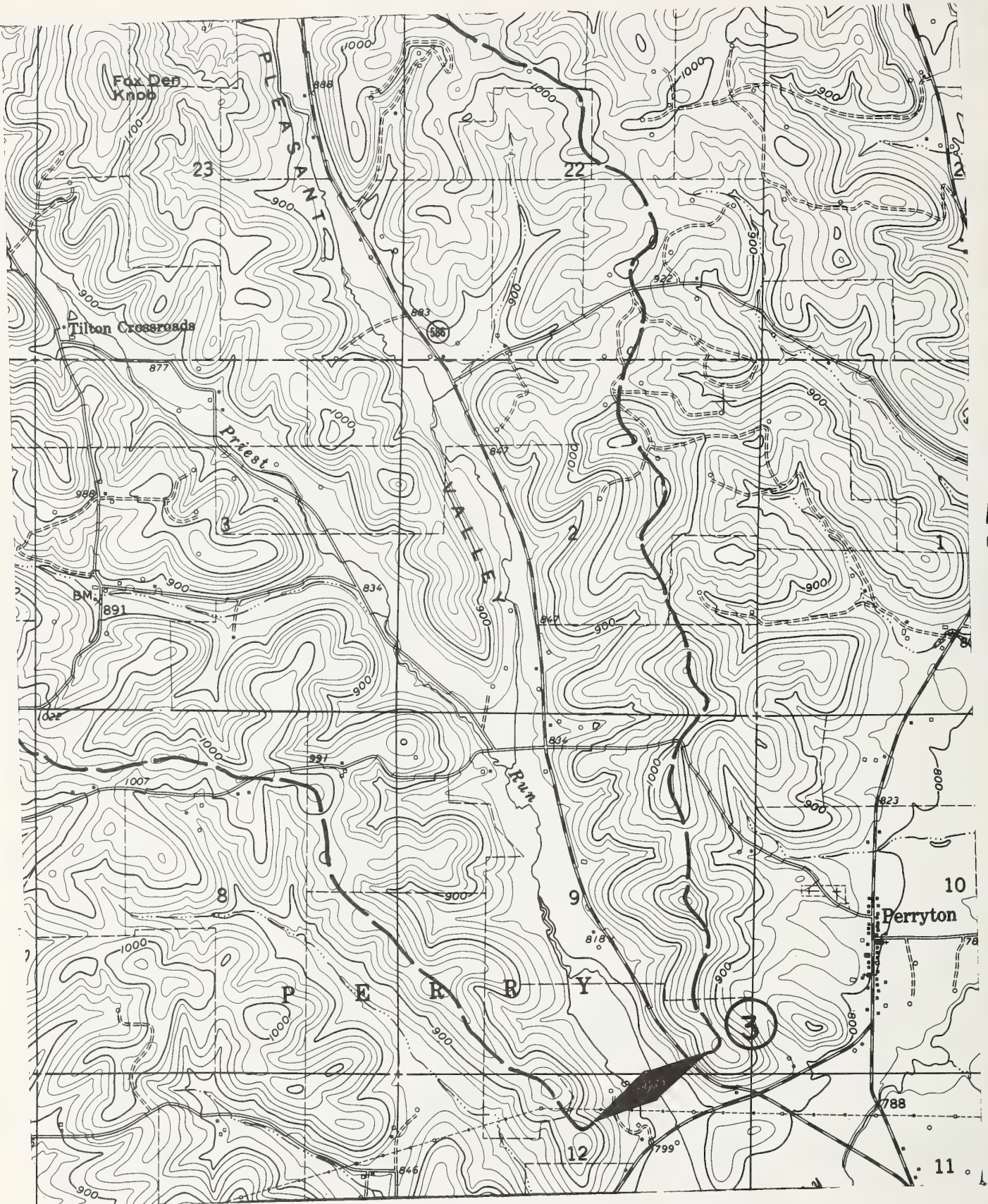
	POTENTIAL USE ABBREVIATIONS	ALL DATA BASED ON PRELIMINARY RESERVOIR LOCATIONS.
FC FLOOD CONTROL	LF LOW FLOW AUGMENTATION	SEDIMENT CONTROL
FW FISH AND WILDLIFE	LL LAKE LEVEL REGULATION	WQ WATER QUALITY CONTROL
IR IRRIGATION	RE RECREATION	WS WATER SUPPLY
		PRICE BASE YEAR 1970



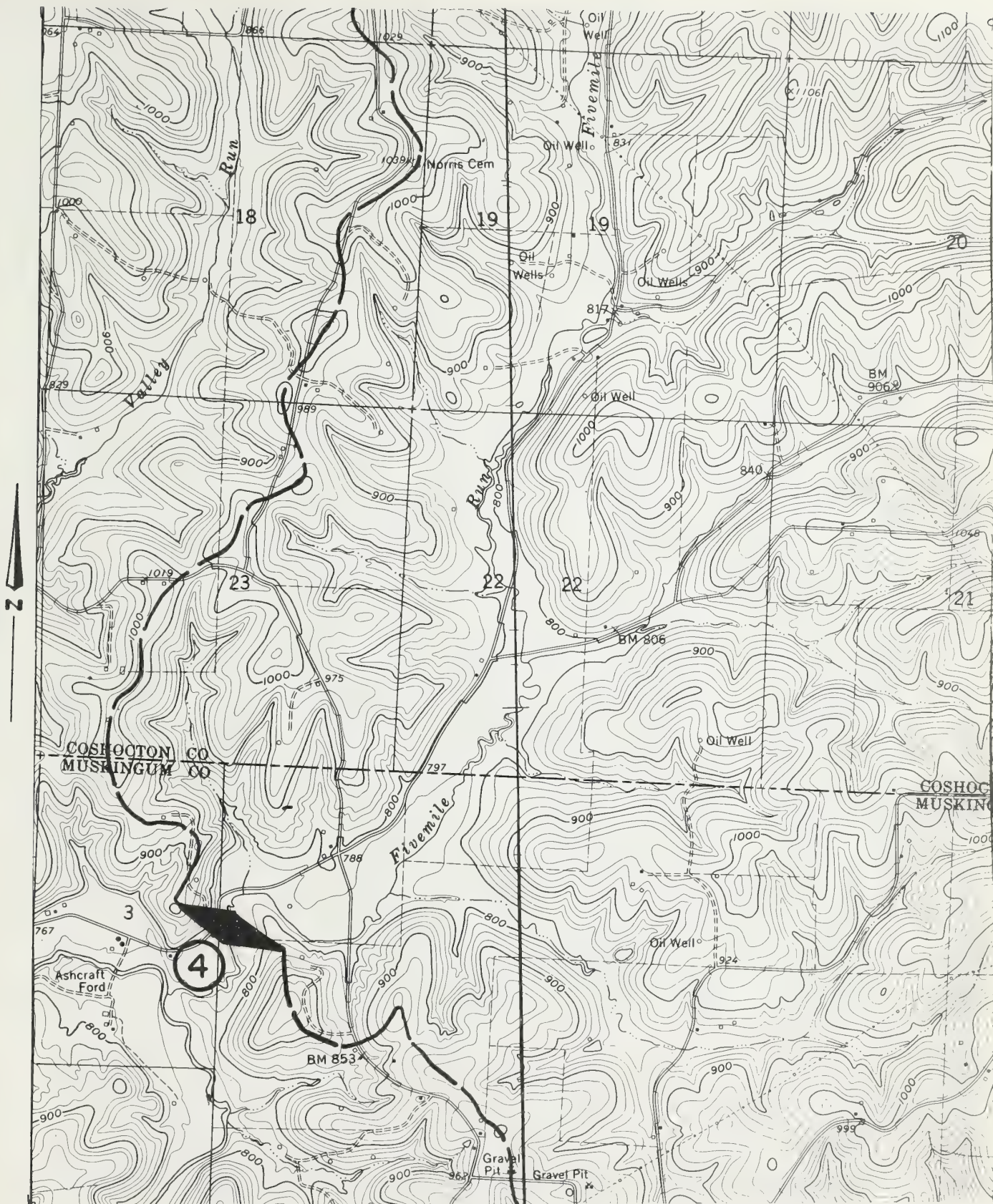
SITE NO. 4-11 (1)
 SUBWATERSHED WAKATOMIKA CREEK
 LOCATION CO. LICKING TWP. FALLSBURY
 SEC. 8 NE⁴ OF SW⁴
 QUAD. PERRYTON
 SCALE 1:24000 C.I. 20 ft.



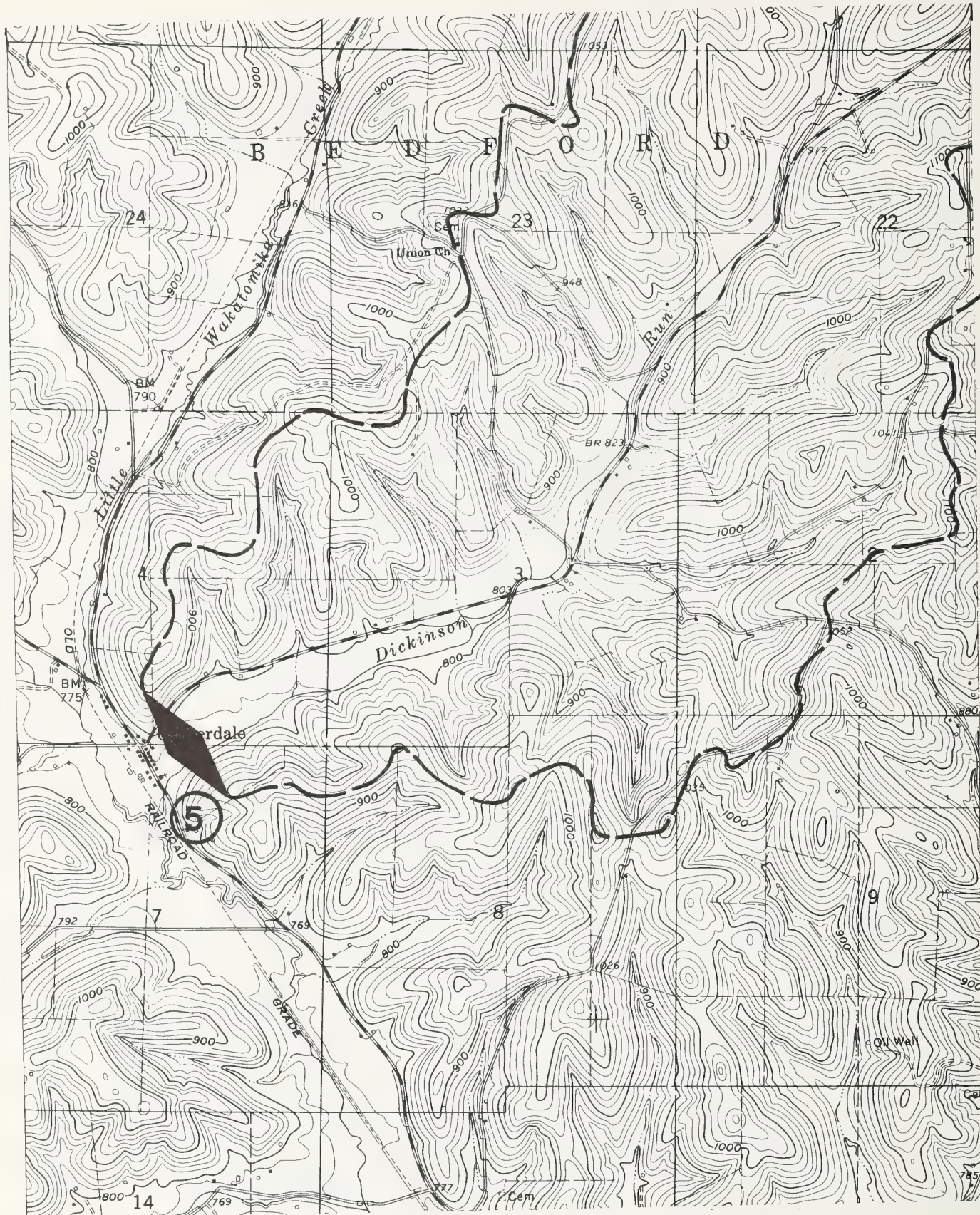
SITE NO. 4-11 (2)
 SUBWATERSHED WAKATOMIKA CREEK
 LOCATION CO. COSHOCTON TWP. PERRY
 SEC. 22 NW⁴ OF NW⁴
 QUAD. PERRYTON
 SCALE 1:24000 C. I. 20 ft.



SITE NO. 4-11 (3)
 SUBWATERSHED WAKATOMIKA CREEK
 LOCATION CO. LICKING TWP. PERRY
 SEC. 9 SE⁴ OF SE⁴
 QUAD. PERRYTON
 SCALE 1: 24000 C. I. 20 ft.



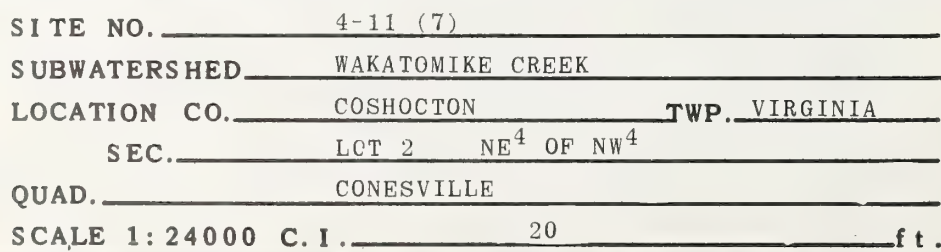
SITE NO. 11-4 (4)
 SUBWATERSHED WATATOMIKA CREEK
 LOCATION CO. MUSKINGUM TWP. JACKSON
 SEC. LOT 1 NW⁴ OF NW⁴
 QUAD. PERRYTON
 SCALE 1:24000 C.I. 20 ft.



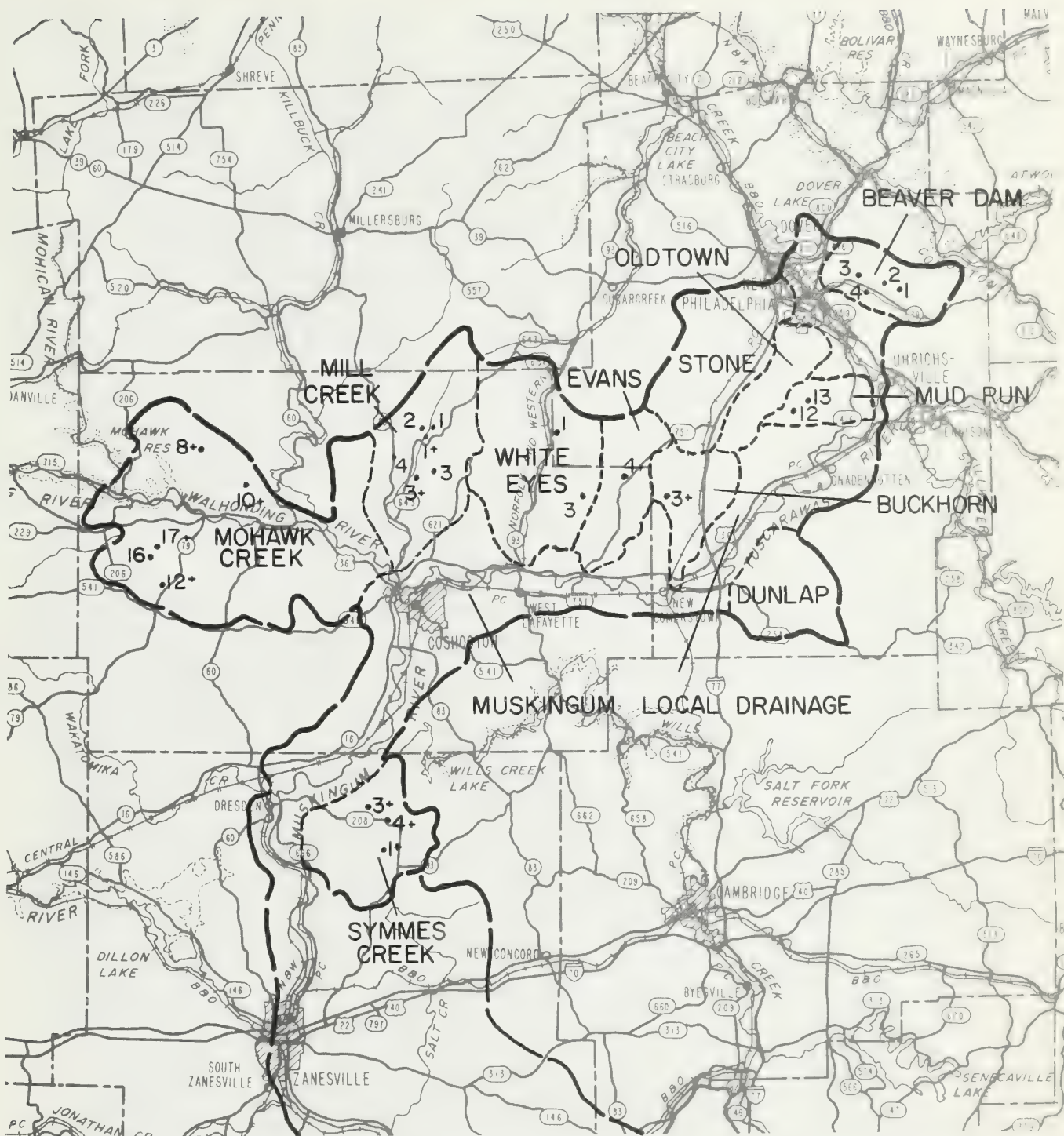
SITE NO. 4-11 (5)
 SUBWATERSHED WAKATOMIKO CREEK
 LOCATION CO. COSHOCTON TWP. WASHINGTON
 SEC. 7 SW⁴ OF NW⁴
 QUAD. TRINWAY
 SCALE 1: 24000 C. I. 20 ft.



SITE NO. 4-11 (6)
 SUBWATERSHED WAKATOMIKA CREEK
 LOCATION CO. COSHOCTON TWP. WASHINGTON
 SEC. 10 SW⁴ OF SW⁴
 QUAD. TRINWAY
 SCALE 1:24000 C. I. 20 ft.



LOCAL DRAINAGE



MUSKINGUM RIVER BASIN

LOCAL DRAINAGE

STATE: OHIO

COSHOCTON, MUSKINGUM, GUERNSEY, HOLMES, TUSCARAWAS COUNTIES

SCALE 1/417,000

[illegible]

OHIO MUSKINGUM RIVER BASIN

[illegible]

POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 1

OHIO MUSKINGUM RIVER BASIN										TUSCARAWAS SB-DIRECT DRAINAGE										EVANS CREEK WS.									

ELEVATION										STORAGE										HGT *									
(FT MSL)										(AC-FT)										*DAM *									
*DAM *										*AREA *										*YDS*									
YDS										*FILL*										*INSTALLATION COST *									
*UNIT COST *										*GROSS										*YIELD									
*(\$ MGD)										*(\$1000)										*(\$ PER									

NORM										EMERG DSGN										TOP *									
BEN										NORM										TEMP									
TOTAL										VOL										*CONST ENGR									
L/R										PROJ										TOTAL									
AC-FT										ACRE										AC-FT*									
FOR										*STORE										BEN									
*2										*ALLOC										ALLOC									
STORE*										P.C.										*****									

POOL										SPNY										HIGH									
OF										*HGT *										*USE									
POOL										FLOOD										E.S.*									
CREST										WTR *										*P.C.									

OHIO MUSKINGUM RIVER BASIN

ELEVATION	*HGT*	*STORAGE	*SURFACE	*FILL*	*INSTALLATION	*UNIT	*GROSS
(FT MSL)	*DAM*	(AC-FT)	*AREA	*1000*	COST	COST	*YIELD
	(FT)*		(AC)	*YDS*	(\$1000)	(\$)	* (MGD)
NORM	EMERG DSGN	TOP	*BEN	*NORM	*DSGN*	*VOL	*CONST
POOL	SPWY	HIGH OF	*HGT*	*USE	*POOL	*HIGH*	*ADM
	CREST	WATER DAM	*CREST	*WTR			

[illegible][illegible]

	POTENTIAL USE ABBREVIATIONS		
FLOOD CONTROL	LF	LOW FLOW AUGMENTATION	SD
FISH AND WILDLIFE	LL	LAKE LEVEL REGULATION	WQ
IRRIGATION	RE	RECREATION	WS
		SEEDING	WU
		SILTATION	WT
		SLURRY WALLS	WW
		SEDIMENT CONTROL	WY
		WATER QUALITY CONTROL	WZ
		WATER SUPPLY	WX
		WATER TREATMENT	WV
		WATER CONSERVATION	WJ
		WATER POLLUTION CONTROL	WY
		WATER RESOURCES MANAGEMENT	WZ
		WATER UTILIZATION	WV
		WATER DISTRIBUTION	WJ
		WATER STORAGE	WY
		WATER PUMPING	WZ
		WATER TREATMENT PLANT	WV
		WATER TREATMENT SYSTEM	WJ
		WATER TREATMENT UNIT	WY
		WATER TREATMENT FACILITY	WZ
		WATER TREATMENT PLANT	WV
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POTENTIAL RESERVOIR SITE SIGN AND COST SUMMARY NO. 1

OHIO MUSKIEGUM RIVER BASIN

DIRECT DRAINAGE, WALHONDING, SB.

MILL CREEK WS.

ELEVATION (FT MSL)	HGT * DAM * (FT)	STORAGE (AC-FT)	SURFACE * AREA * (AC)	FILL * (1000) * YDS	INSTALLATION COST * (\$1000)	UNIT COST * (\$)	GROSS YIELD * (MGD)
NORM ENRG DSGN	TOP MAX	BEN NORM TEMP	TOTAL	NORM DSGN	VOL	*CONST ENGR L/R PROJ TOTAL	AC-FT ACRE
POOL SPHY HIGH OF	* HGT	* USE	POOL FLOOD E.S.	* POOL HIGH	* ADM	*STORE BEN	BEN
CREST WATER DAM	* DAM	* CREST	* WIR	* WIR	* ALLOC	* ALLOC STORE	P.C.

SITE MILL CREEK (1)	B DA=	11.93	SQ.MI.	ELEV. BOTTOM C/L PROFILE=	830.0	POTENTIAL USES-FC RE										
943.8	862.0	866	675	* 45 *	261 1629	1941 *	43	177 *	114 *	251 *	18	151	67	487 *	251 *	
868.5	875.9	878	886	* 56 *	2800	3061 1629	4741 *	201	283 *	190 *	405	26	232	80	743 *	157
879.0	864.4	886	893	* 63 *	5345	5606 1629	7285 *	288	358 *	253 *	504	30	293	91	918 *	126
886.8	891.1	893	899	* 69 *	7890	8151 1629	9830 *	362	421 *	317 *	610	37	354	110	1110 *	113
899.0	902.3	904	909	* 79 *	12980	13240 1629	14920 *	478	536 *	440 *	803	48	450	145	1446 *	97
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SITE MILL CREEK (1+)	AT MOUND	B DA=	15.34	SQ.MI.	ELEV. BOTTOM C/L PROFILE=	811.0	POTENTIAL USES-FC RE										
	*	*	*	*	*	*	*										
826.0	844.1	847	853	42	319	2094	2471	56	213	162	335	22	151	75	584	236	
851.8	859.0	861	870	59	3800	4119	2094	6271	263	363	343	648	39	292	117	1096	175
862.0	867.5	869	877	66	7072	7391	2094	9543	372	468	440	798	48	397	144	1386	145
869.9	874.1	876	882	71	10345	10664	2094	12815	475	552	533	937	56	474	169	1636	128
881.6	885.0	886	892	81	16889	17208	2094	19360	632	700	713	1210	73	568	218	2068	107

SITE BEARDS RUN (2) N OF MOUND	B DA=	2.28 SQ.MI.	ELEV. BOTTOM C/L PROFILE=	829.0	POTENTIAL USES-FC RE												
846.9	858.5	861	865	36	79	271	364	15	39	47	125	11	41	38	215	592	
864.0	869.6	872	878	49	500	579	272	865	45	62	112	240	18	69	65	392	454
873.0	877.3	880	885	56	988	1068	272	1353	63	76	158	323	22	89	74	508	375
880.0	883.5	885	890	61	1477	1556	273	1842	77	92	201	393	25	110	79	607	329
890.5	893.1	895	899	70	2454	2533	273	2819	107	118	285	519	31	130	93	774	274
											</						

SITE LITTLE MILL CREEK (3)	B DA=	7.13 SQ.MI.	ELEV. BOTTOM C/L PROFILE=	810.0	POTENTIAL USES-FC RE													
825.0	842.9	846	851	41	190	979	1204	30	99	63	184	15	125	54	379	315	*	
850.5	857.8	860	869	59	1800	1990	979	3004	122	169	254	474	29	218	87	807	269	3964
860.9	866.3	869	876	66	3321	3511	979	4524	171	213	347	614	37	274	111	1036	229	4445
868.6	873.3	875	882	72	4842	5032	979	6045	214	249	439	748	45	319	135	1247	206	4659
881.0	884.5	886	892	82	7884	8074	979	9087	284	324	617	996	60	372	179	1608	177	4910
																	204	3.63

FC	FLOOD CONTROL	LF	POTENTIAL USE ABBREVIATIONS	SD	SEDIMENT CONTROL
FW	FISH AND WILDLIFE	LL	LOW FLOW AUGMENTATION	WQ	WATER QUALITY CONTROL
IR	IRRIGATION	RE	RECREATION	WS	WATER SUPPLY

PRICE BASE YEAR 1970

ALL DATA BASED ON PRELIMINARY
RESERVOIR LOCATIONS.

[illegible]

MOHAWK CREEK WS.

[illegible]

SITE	UPPER	END	MOHAWK	CREEK	12+	B	DA=	4-.51	SQ.MI.	ELEV.	BOTTOM	C/L	PROFILE=	855.0	POTENTIAL	USES-FC	RE	
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
867.1	883.0	886	893	* 38 *			135	687	846	* 24 *	71	* 93 *	201	16	55	59	330	* 390 *
887.4	895.8	898	906	* 51 *	1000	1135	690	1848	* 75 *	101	* 187 *	363	24	88	77	551	* 298 *	3957
898.3	904.5	906	913	* 58 *	1962	2097	692	2810	* 102 *	129	* 260 *	478	29	108	87	702	* 250 *	4794
906.5	911.6	913	920	* 65 *	2924	3059	697	3780	* 130 *	153	* 330 *	587	35	124	106	852	* 226 *	5071
919.1	923.0	924	930	* 75 *	4848	4983	699	5706	* 175 *	196	* 464 *	785	47	146	141	1120	* 196 *	5426
				* *					* *		* *						* *	

	POTENTIAL USE ABBREVIATIONS				SEDIMENT CONTROL		PRICE BASE YEAR 1970
	LF	LL	LQ	WQ	WS		
FC	FLOOD CONTROL						
FW	FISH AND WILDLIFE						
IR	IRRIGATION						

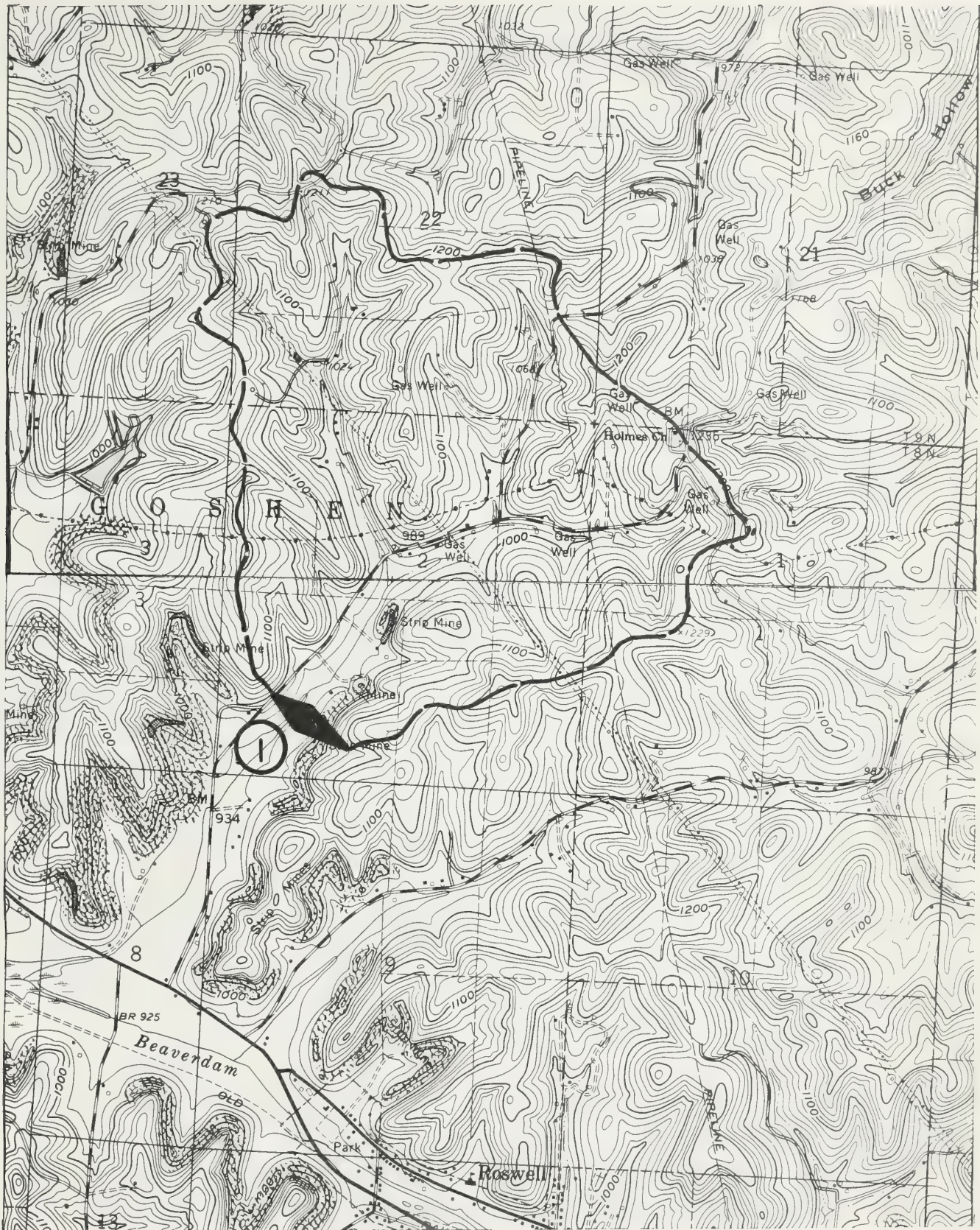
POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 2

OHIO MUSKINGUM RIVER BASIN										WALHONDING SB. DIRECT DRAINAGE										MOHAWK CREEK WS.									

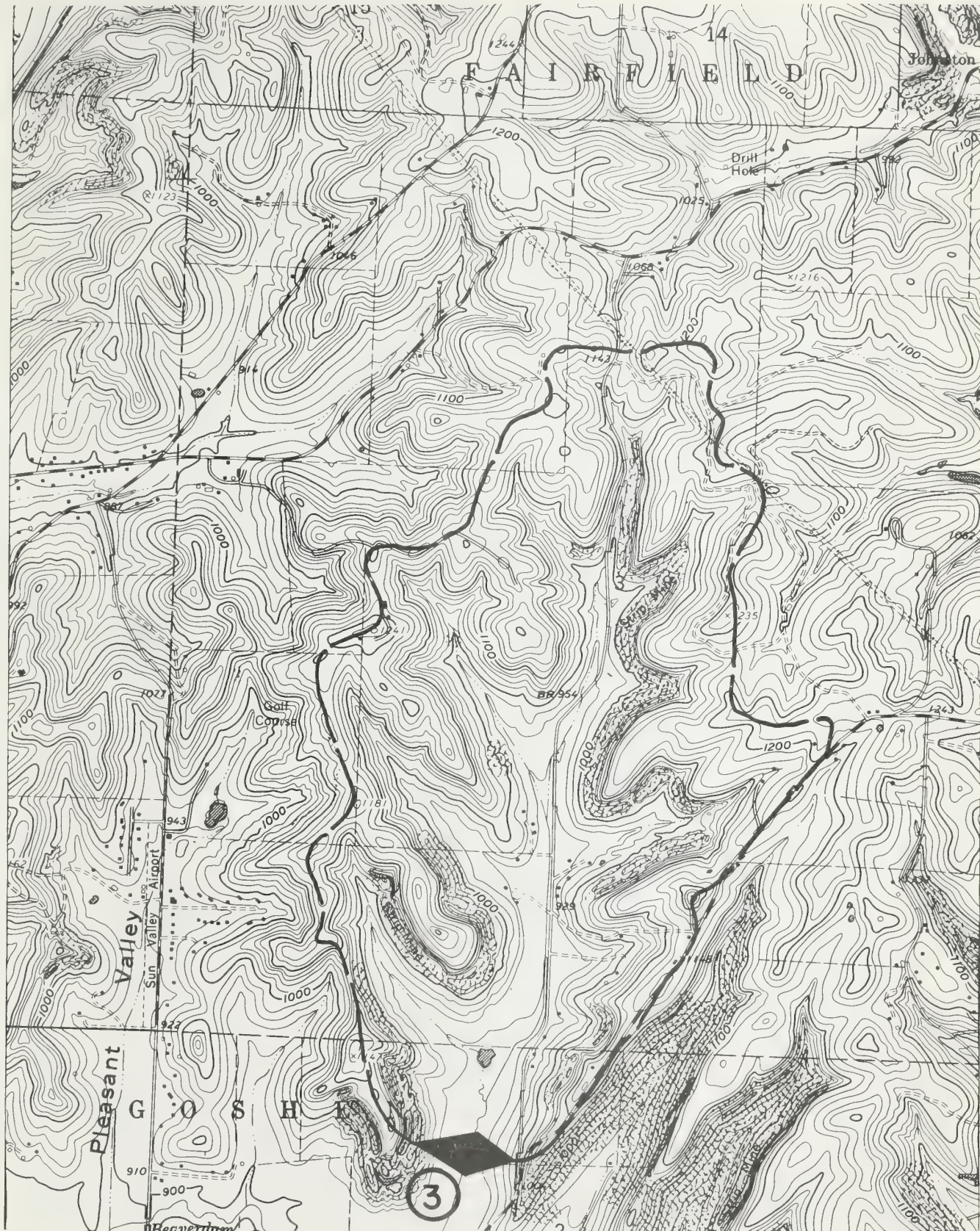
POTENTIAL RESERVOIR SITE DESIGN AND COST SUMMARY NO. 1

OHIO MUSKINGUM RIVER BASIN										DIRECT DRAINAGE										SYMMES CREEK WS.									
ELEVATION										STORAGE										SURFACE									
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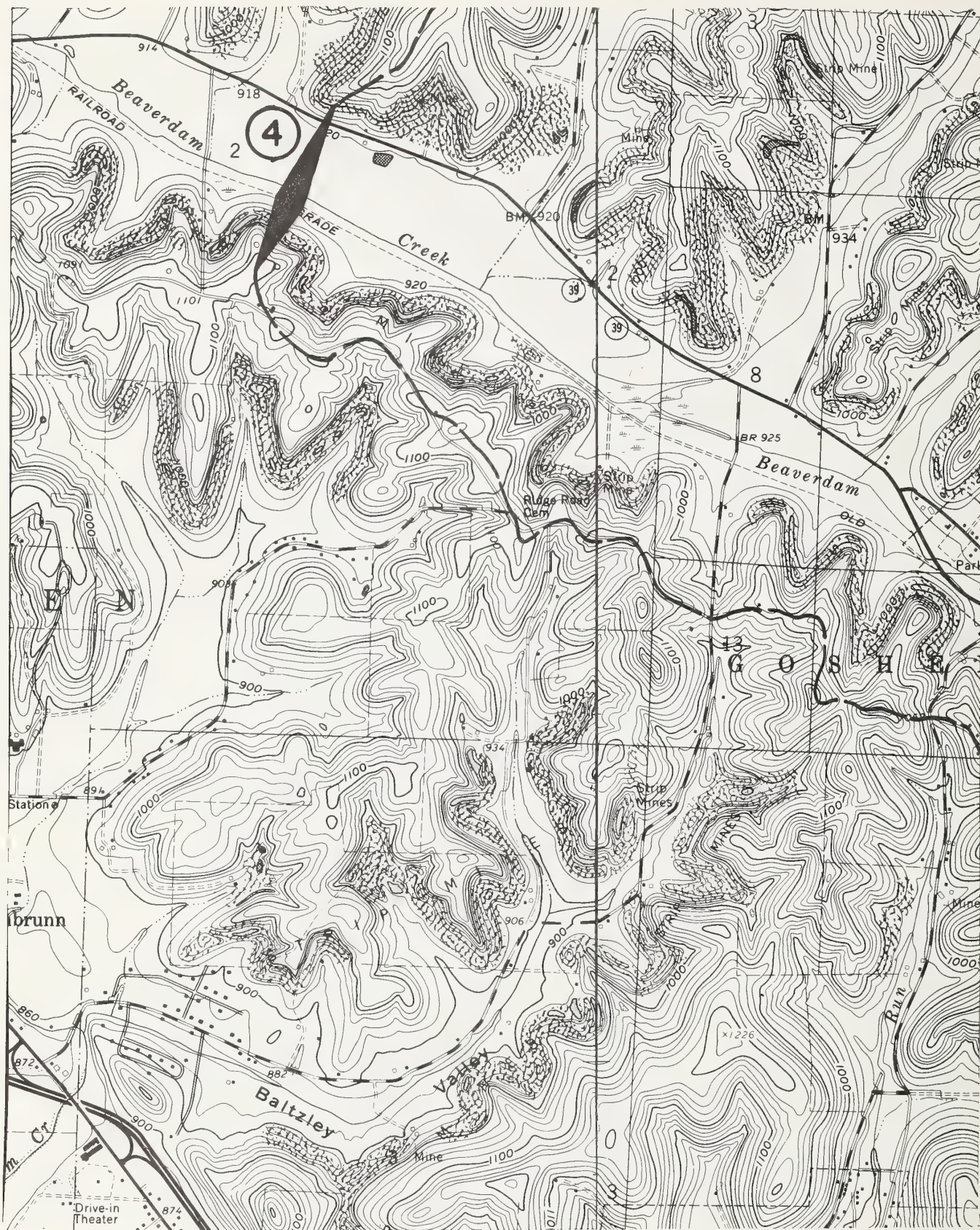
RAINBOW CREEK WS-



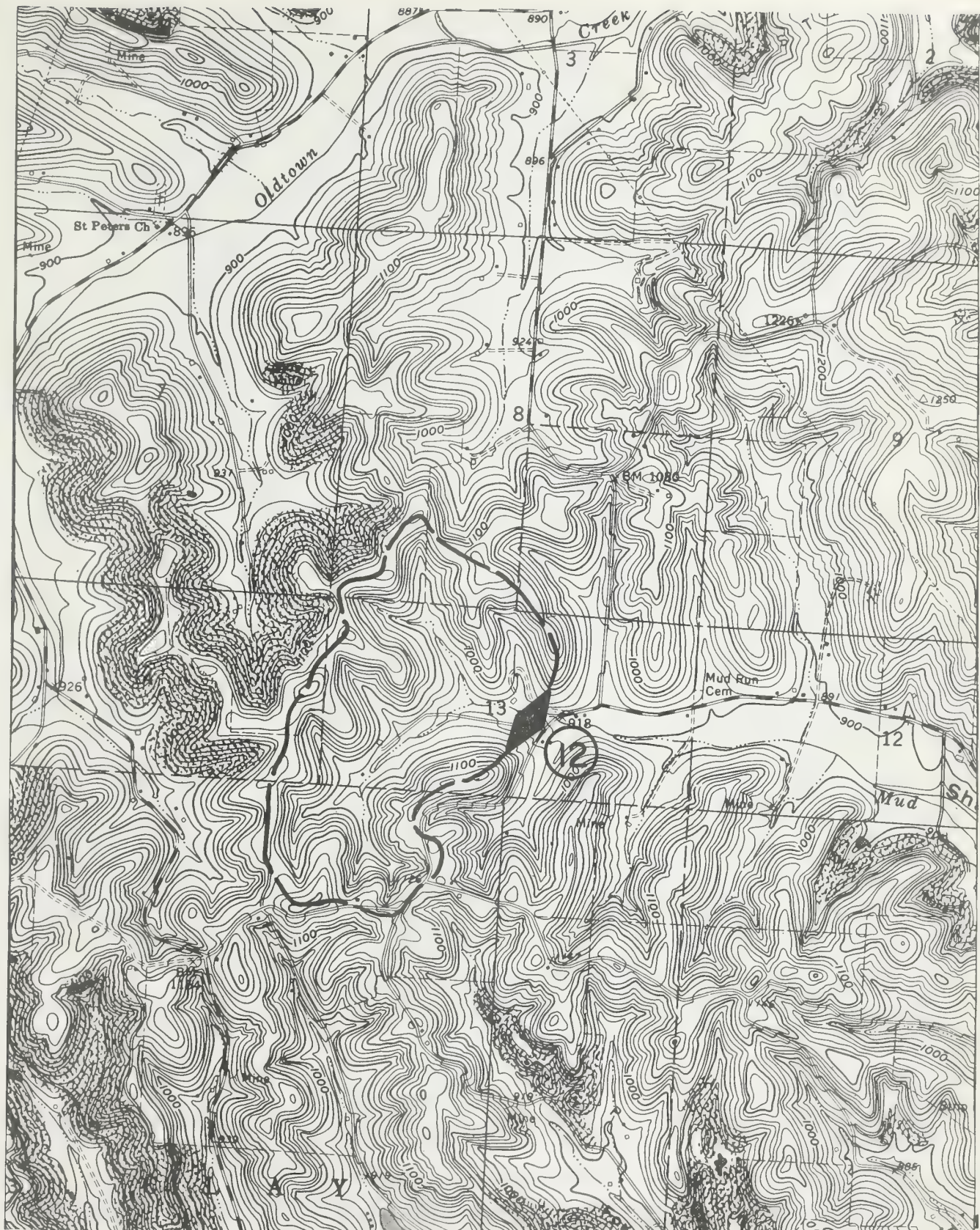
SITE NO. 4A-8 (1)
 SUBWATERSHED LOCAL DRAINAGE (BEAVERDAM)
 LOCATION CO. TUSCARAWAS TWP. GOSHEN
 SEC. 2 SW⁴ OF SW⁴
 QUAD. UHRICHSVILLE
 SCALE 1: 24000 C. I. 20 ft.



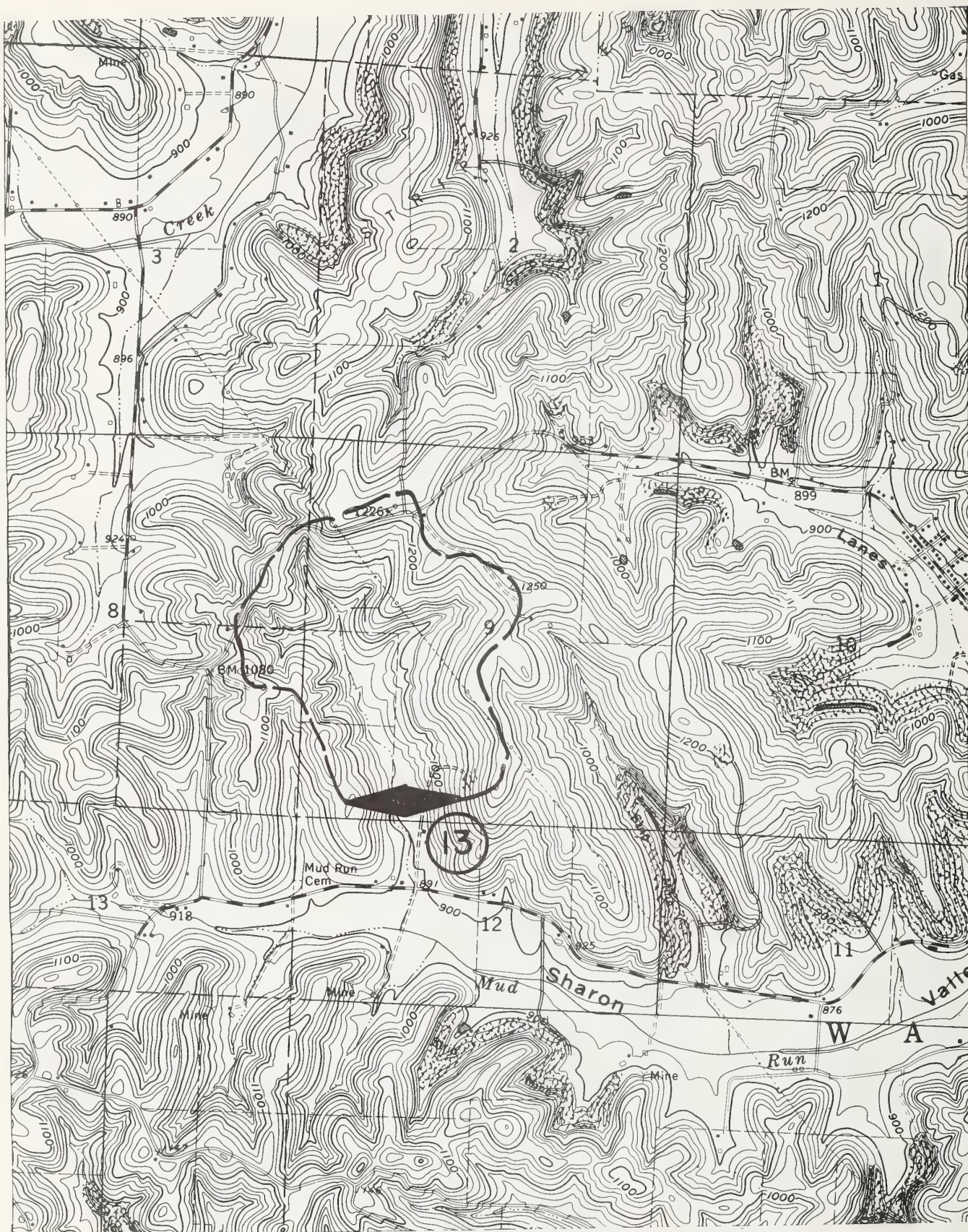
SITE NO. 4A-8 (3)
 SUBWATERSHED LOCAL DRAINAGE (BEAVERDAM)
 LOCATION CO. TUSCARAWAS TWP. GOSHEN
 SEC. LOT 2 NE 1/4 OF NW 1/4
 QUAD. DOVER
 SCALE 1:24000 C.I. 20 FT. ft.

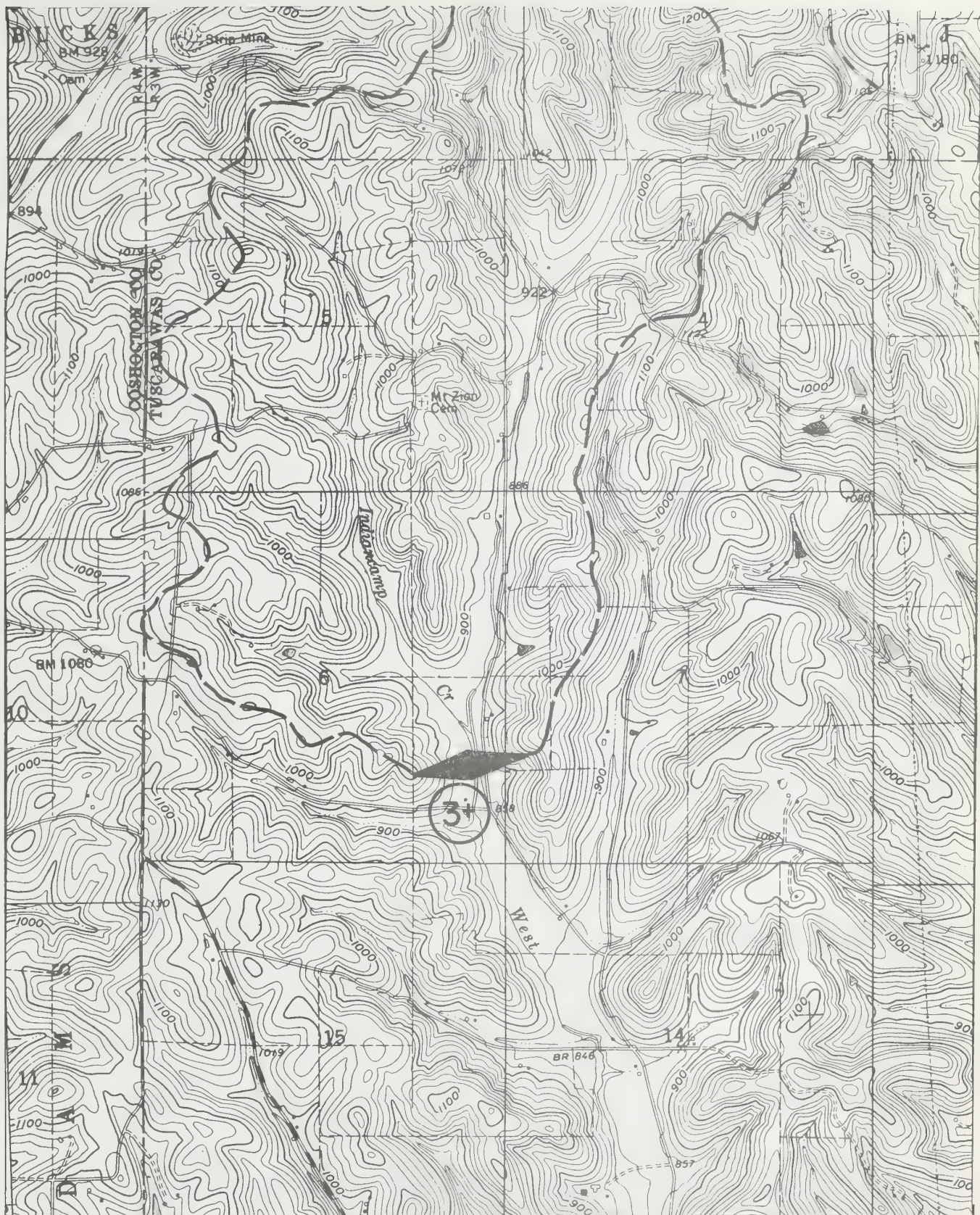


SITE NO. 4A-8 (4)
 SUBWATERSHED LOCAL DRAINAGE (BEAVERDAM)
 LOCATION CO. TUSCARAWAS TWP. GOSHEN
 SEC. LOT 2 NW⁴ OF SE⁴
 QUAD. NEW PHILADELPHIA
 SCALE 1: 24000 C. I. 20 ft.

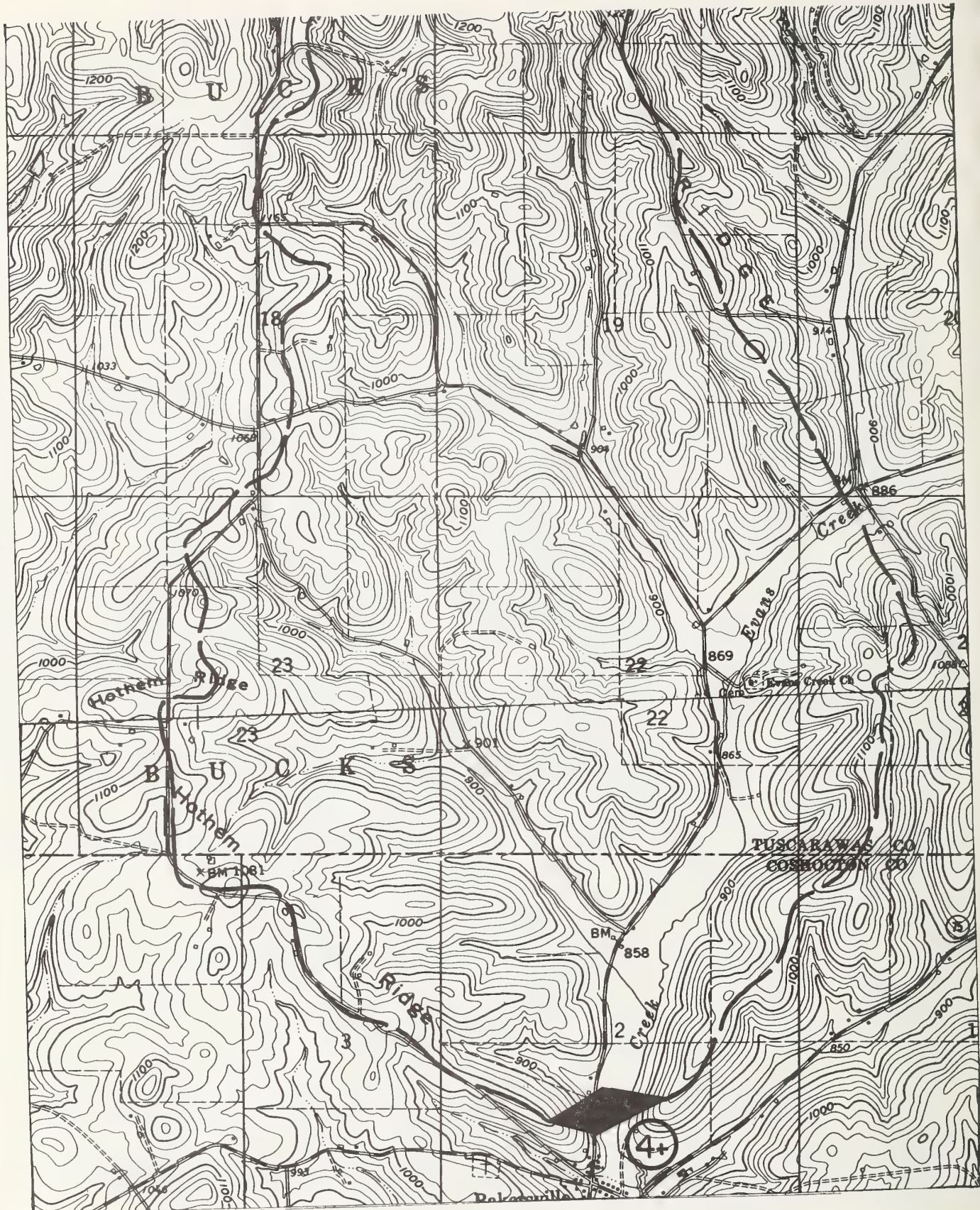


SITE NO. 4A-1 (12)
 SUBWATERSHED LOCAL DRAINAGE (MUD RUN)
 LOCATION CO. TUSCARAWAS TWP. WARWICK
 SEC. 13 NW⁴ OF SE⁴
 QUAD. NEW PHILADELPHIA
 SCALE 1:24000 C. I. 20 ft.

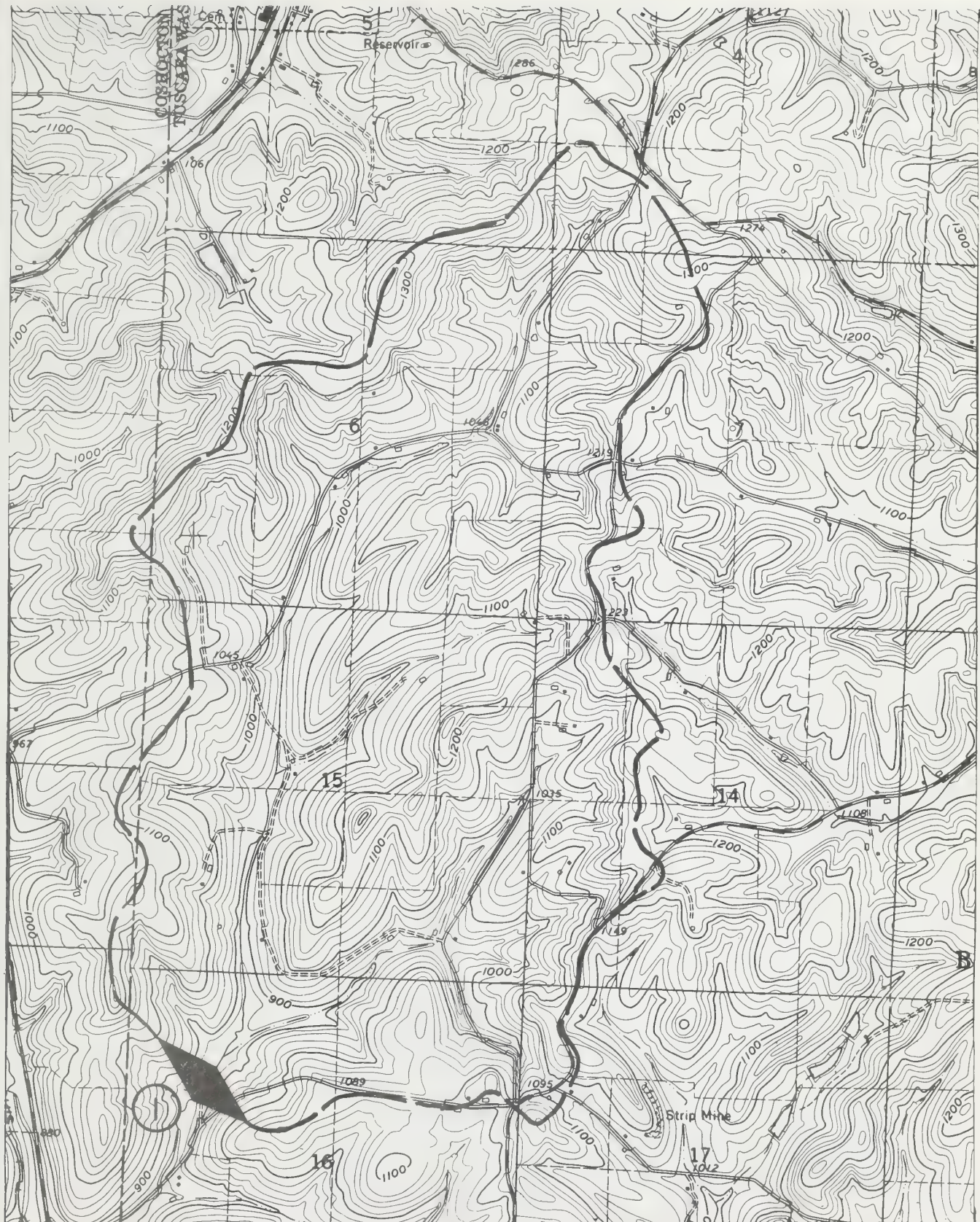




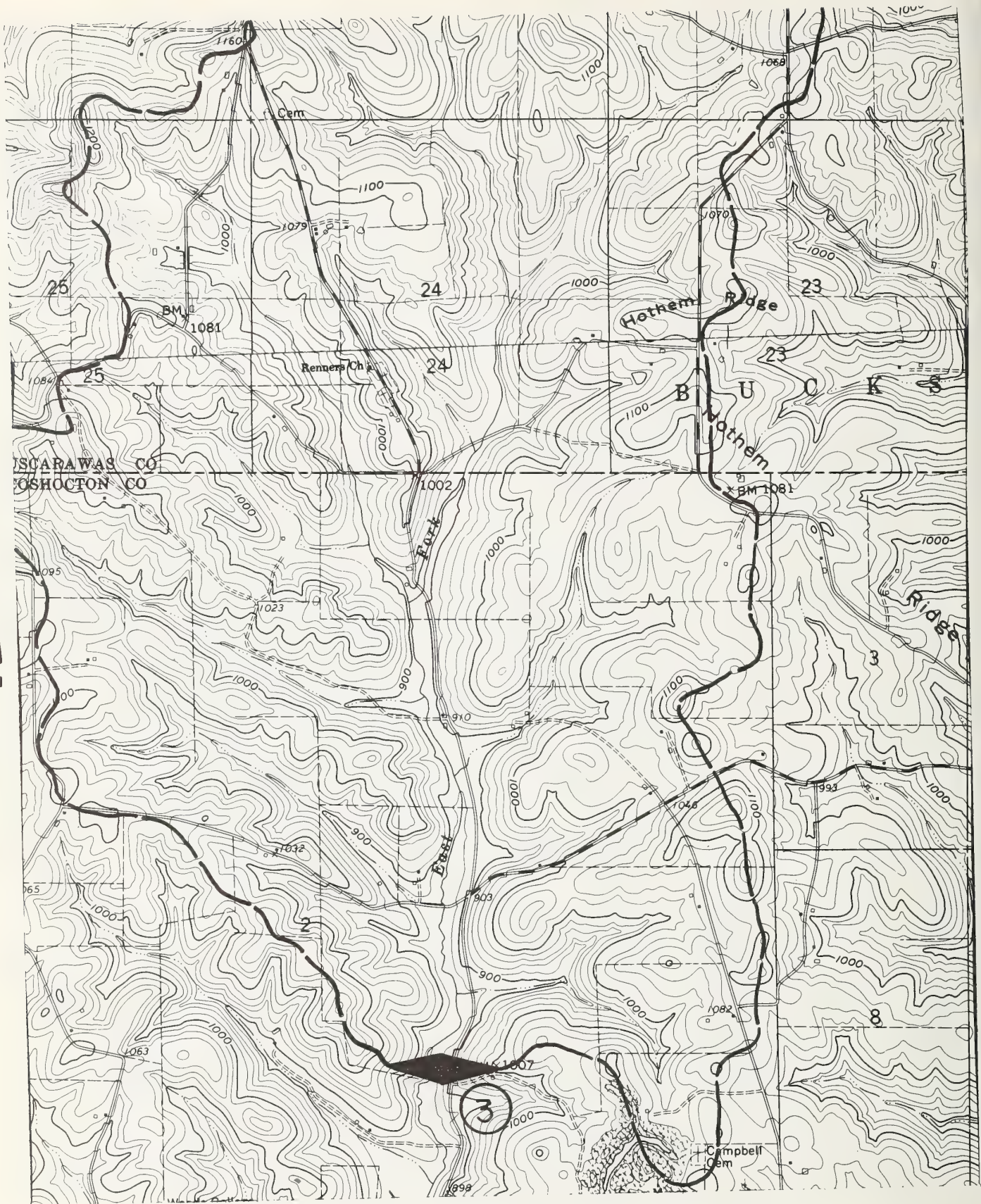
SITE NO. 4A-4 (3')
 SUBWATERSHED LOCAL DRAINAGE (BUCKHORN CREEK)
 LOCATION CO. TUSCARAWAS TWP. SALEM
 SEC. 6 NE⁴ OF SE⁴
 QUAD. NEWCOMERSTOWN
 SCALE 1:24000 C.I. 20 ft.



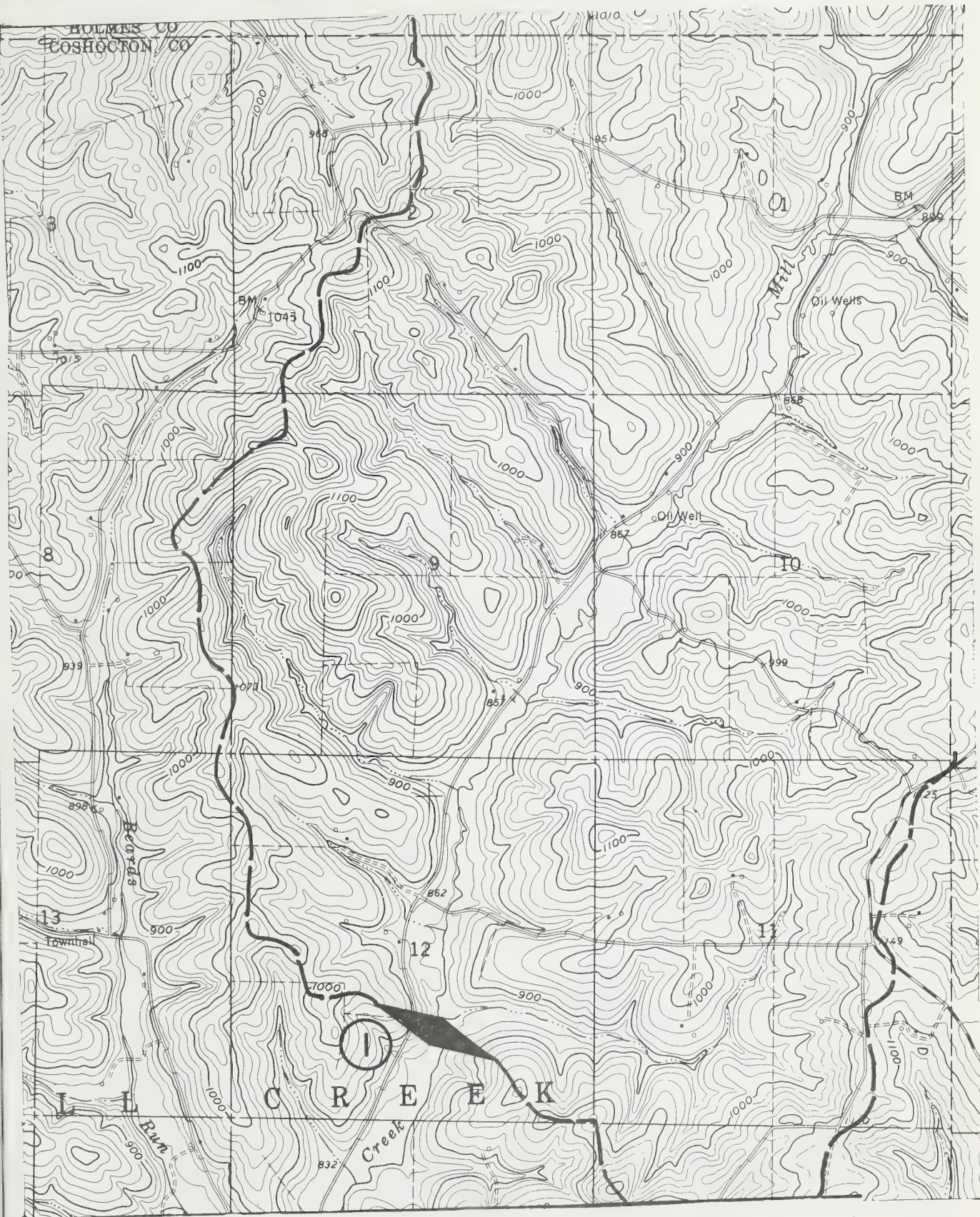
SITE NO. 4A-3 (4+)
 SUBWATERSHED LOCAL DRAINAGE (EVANS CR.)
 LOCATION CO. COSHOCTON TWP. ADAMS
 SEC. 2 NW 1/4 OF SE 1/4
 QUAD. FRESNO
 SCALE 1:24000 C.I. 20 FT. ft.



SITE NO. 4A-2 (1)
 SUBWATERSHED LOCAL DRAINAGE (WHITEEYES CREEK)
 LOCATION CO. TUSCARAWAS TWP. BUCK
 SEC. 16 SW¹ OF NW⁴
 QUAD. BALTIC
 SCALE 1:24000 C. I. 20 ft.



SITE NO. 4A-2 (3)
 SUBWATERSHED LOCAL DRAINAGE (WHITE EYES)
 LOCATION CO. COSHOCKTON TWP. ADAMS
LOT 2 NW⁴ OF SE⁴
 QUAD. FRESNO
 SCALE 1:24000 C.I. 20 ft.



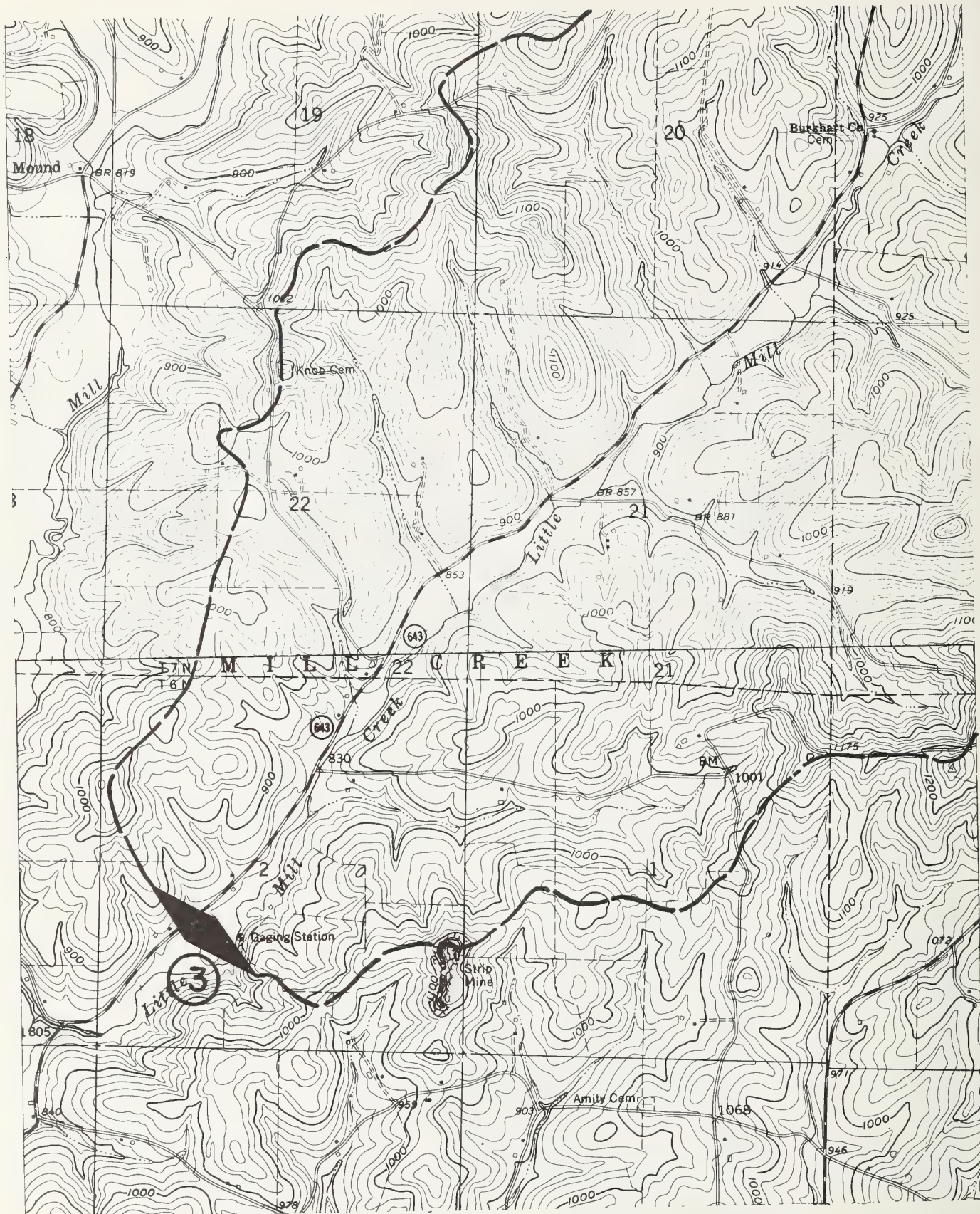
SITE NO. 4B-2 (1)
 SUBWATERSHED LOCAL DRAINAGE (MILL CREEK)
 LOCATION CO. COSHOCKTON TWP. MILL CREEK
 SEC. 12 NW⁴ OF SE⁴
 QUAD. NEW BEDFORD
 SCALE 1:24000 C.I. 20 ft.



SITE NO. 4B- 2 (1+)
 SUBWATERSHED LOCAL DRAINAGE (MILL CREEK)
 LOCATION CO. COSHOCTON TWP. MILL CREEK
 SEC. 18 NE 1/4 OF SE 1/4 & SEC. 19 NW 1/4 OF SW 1/4
 QUAD. NEW BEDFORD
 SCALE 1:24000 C. I. 20 FT. ft.



SITE NO. 4B-2 (2)
 SUBWATERSHED LOCAL DRAINAGE (MILL CR.)
 LOCATION CO. COSHOCTON TWP. MILL CR.
 SEC. 18 NW 1 4 OF NE 1 4
 QUAD. NEW BEDFORD
 SCALE 1:24000 C.I. 20 FT. ft.



SITE NO. 4B-2 (3)

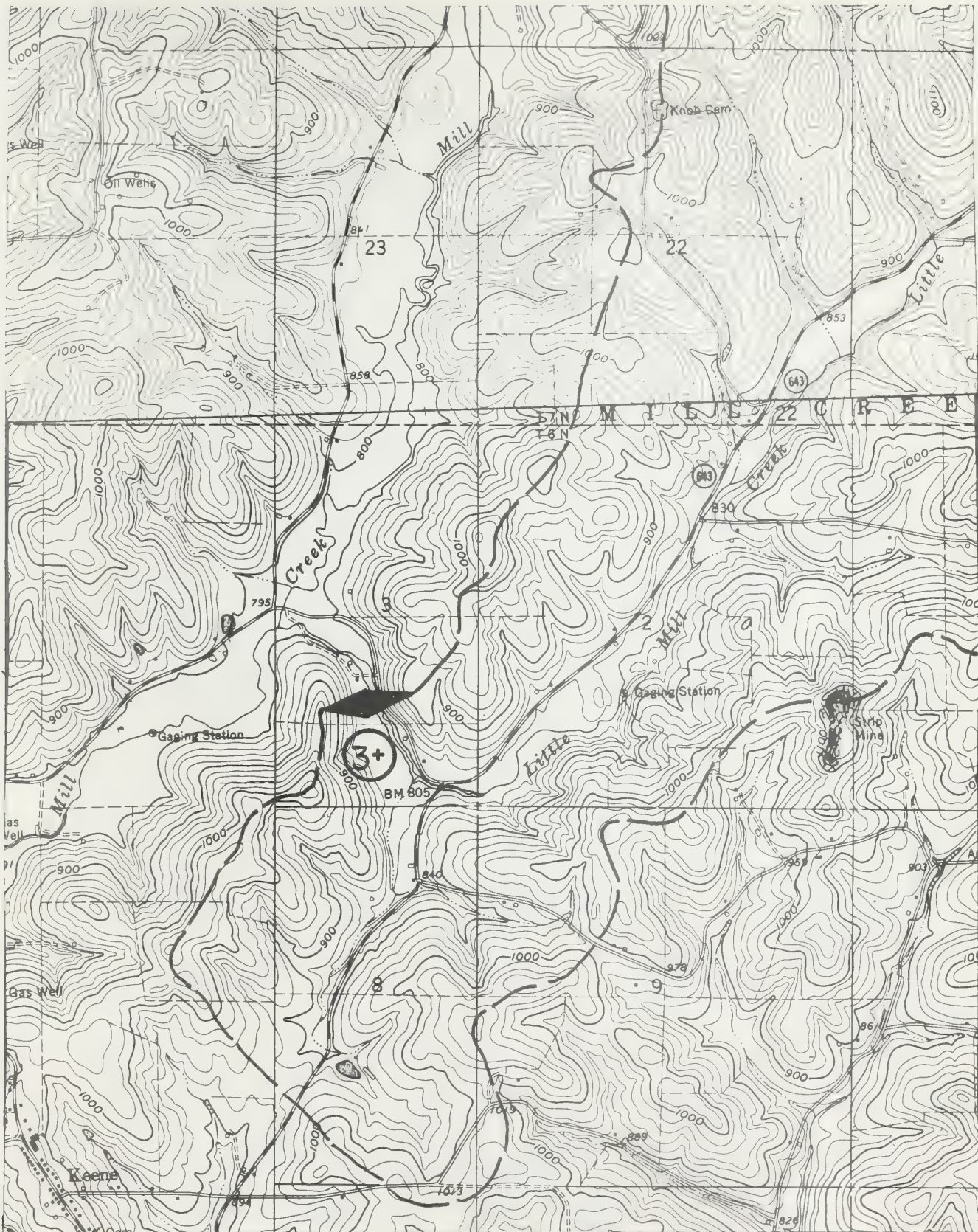
SUBWATERSHED LOCAL DRAINAGE (MILL CREEK)

LOCATION CO. COSHOCTON TWP. KERNE

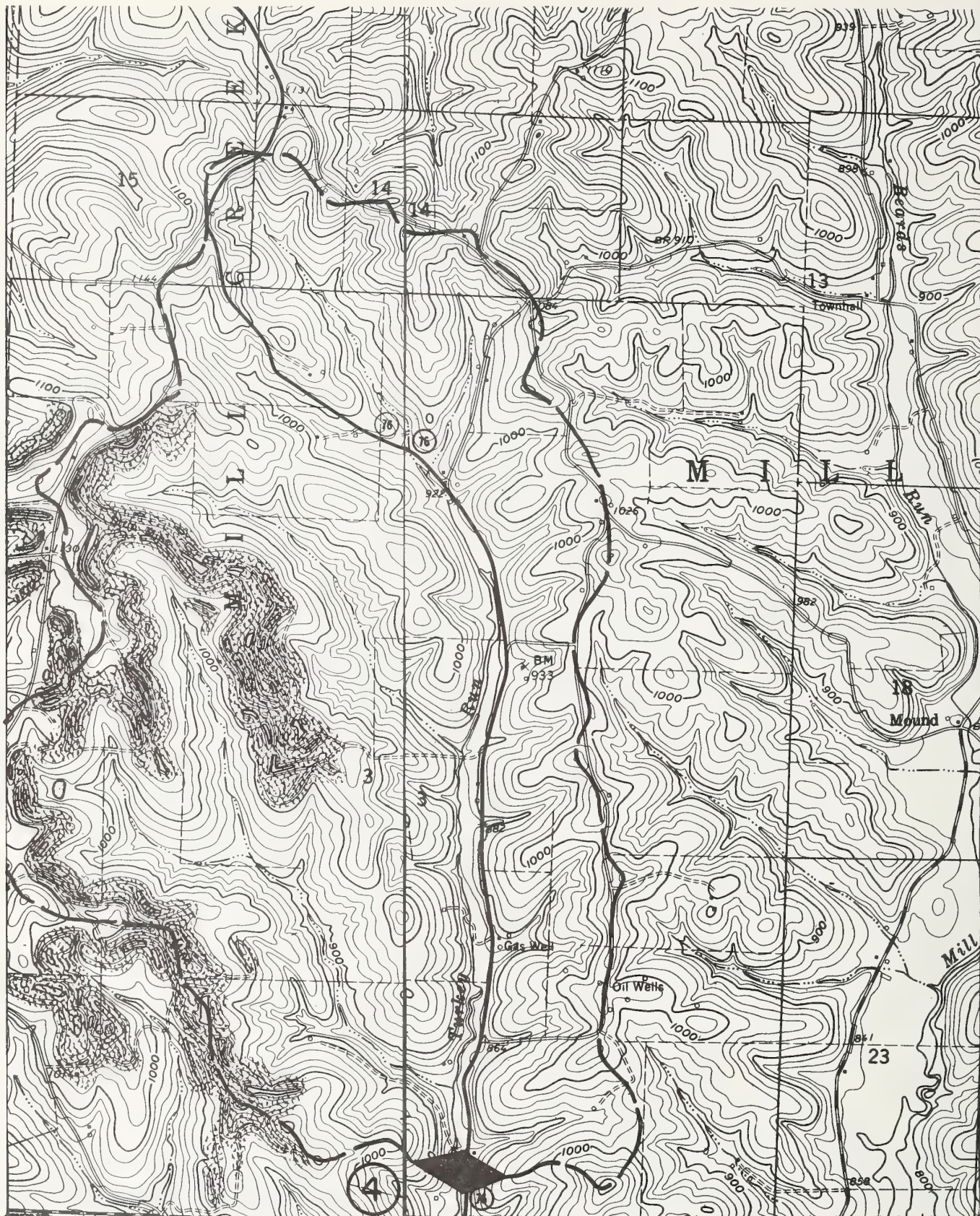
SEC. 2 SW⁴ OF SW⁴

QUAD. COSHOCTON

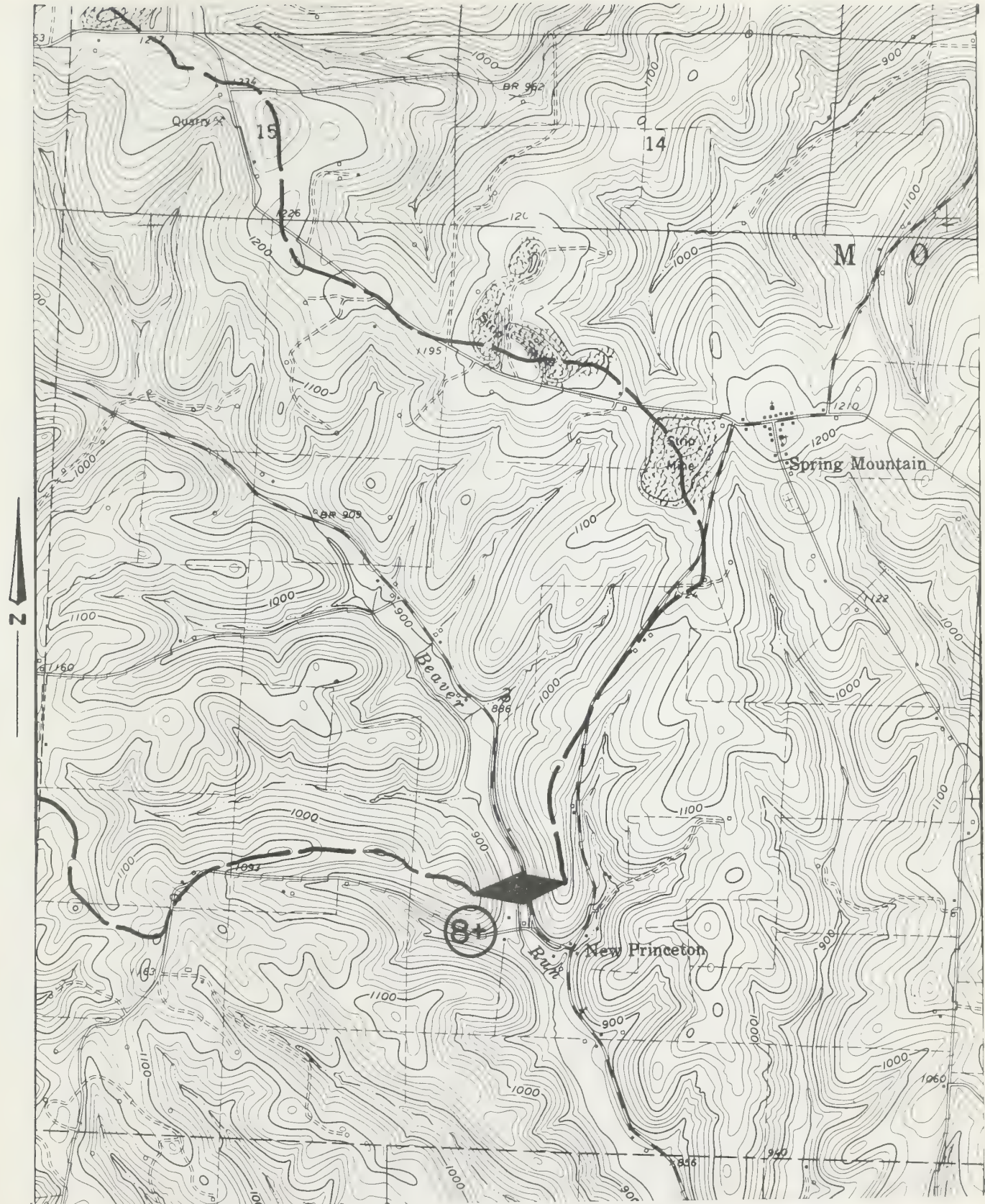
SCALE 1:24000 C.I. 20 ft.



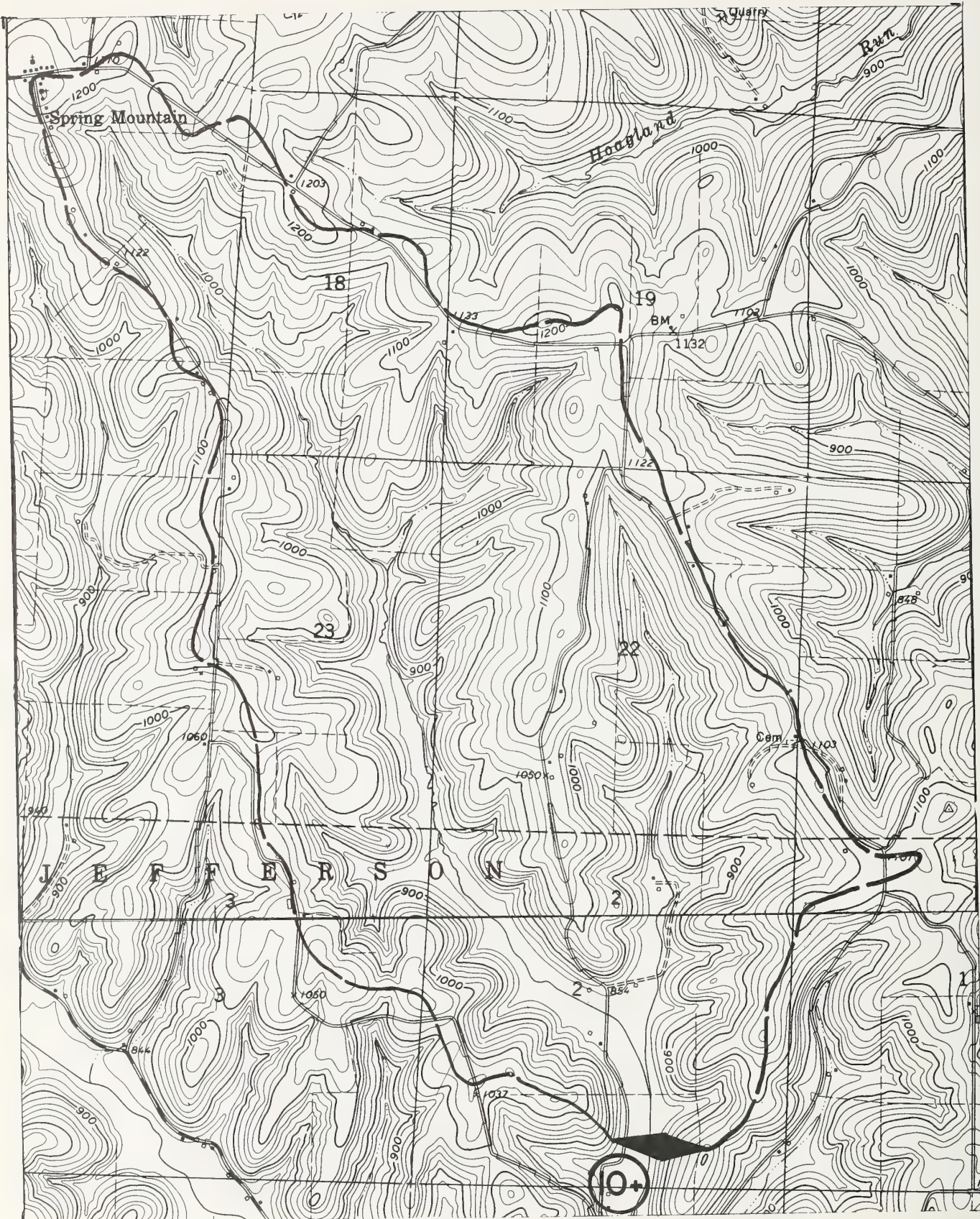
SITE NO. 4B-2 (3+)
 SUBWATERSHED LOCAL DRAINAGE (MILL CREEK)
 LOCATION CO. COSHOCTON TWP. KEENE
 SEC. 3 SE⁴ OF NW⁴
 QUAD. COSHOCTON
 SCALE 1:24000 C. I. 20 ft.



SITE NO. 4B-2 (4)
 SUBWATERSHED LOCAL DRAINAGE (MILL CREEK)
 LOCATION CO. COSHOCTON TWP. MILL CREEK
 SEC. LOT 3 SW⁴ OF SE⁴
 QUAD. NEW BEDFORD
 SCALE 1:24000 C. I. 20 ft.



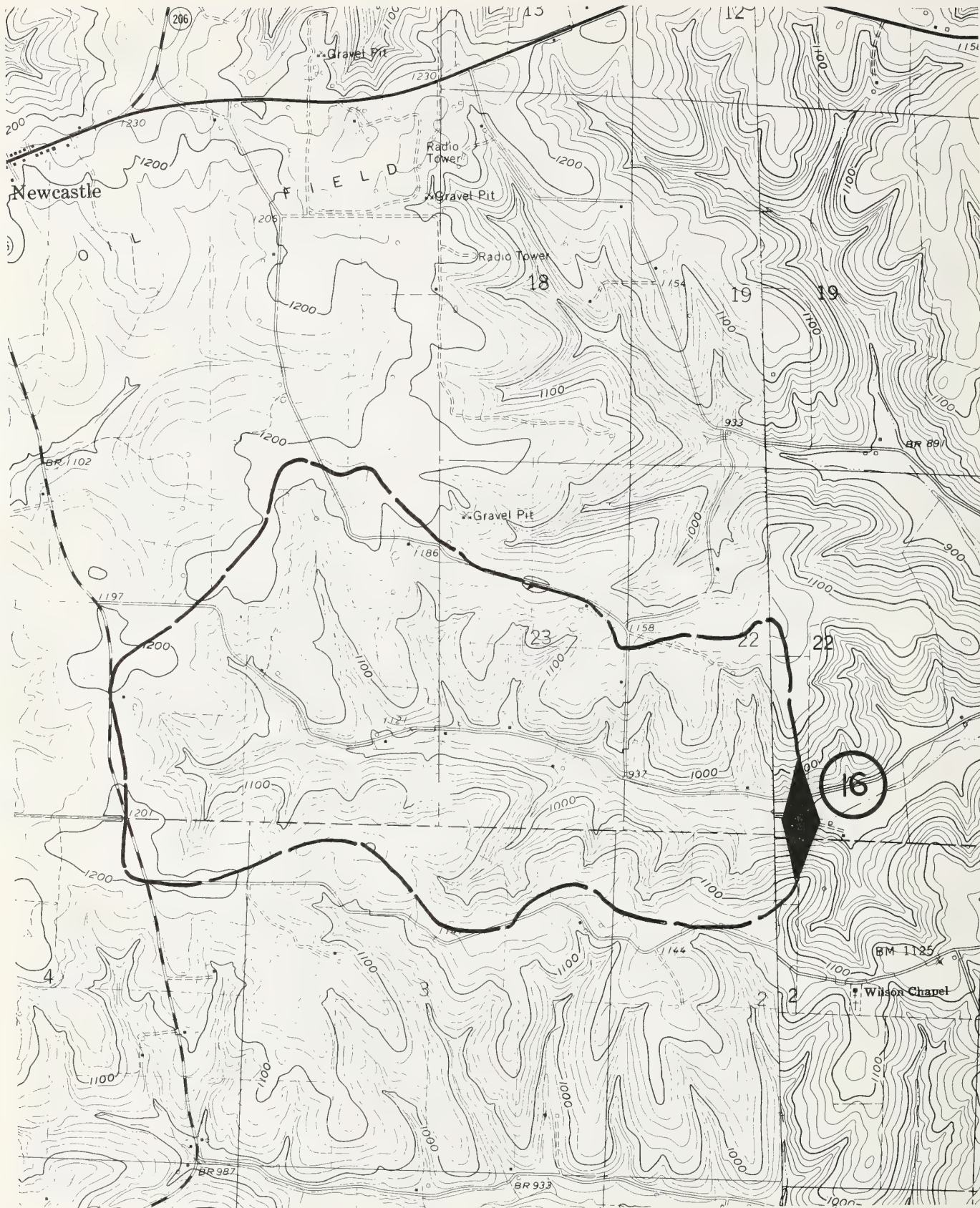
SITE NO. 4B-1 (8+)
 SUBWATERSHED LOCAL DRAINAGE (MOHAWK CREEK)
 LOCATION CO. COSHOCTON TWP. MONROE
 SEC. 3 NW¹ OF SW¹
 QUAD. SPRING MOUNTAIN
 SCALE 1:24000 C.I. 20 ft.



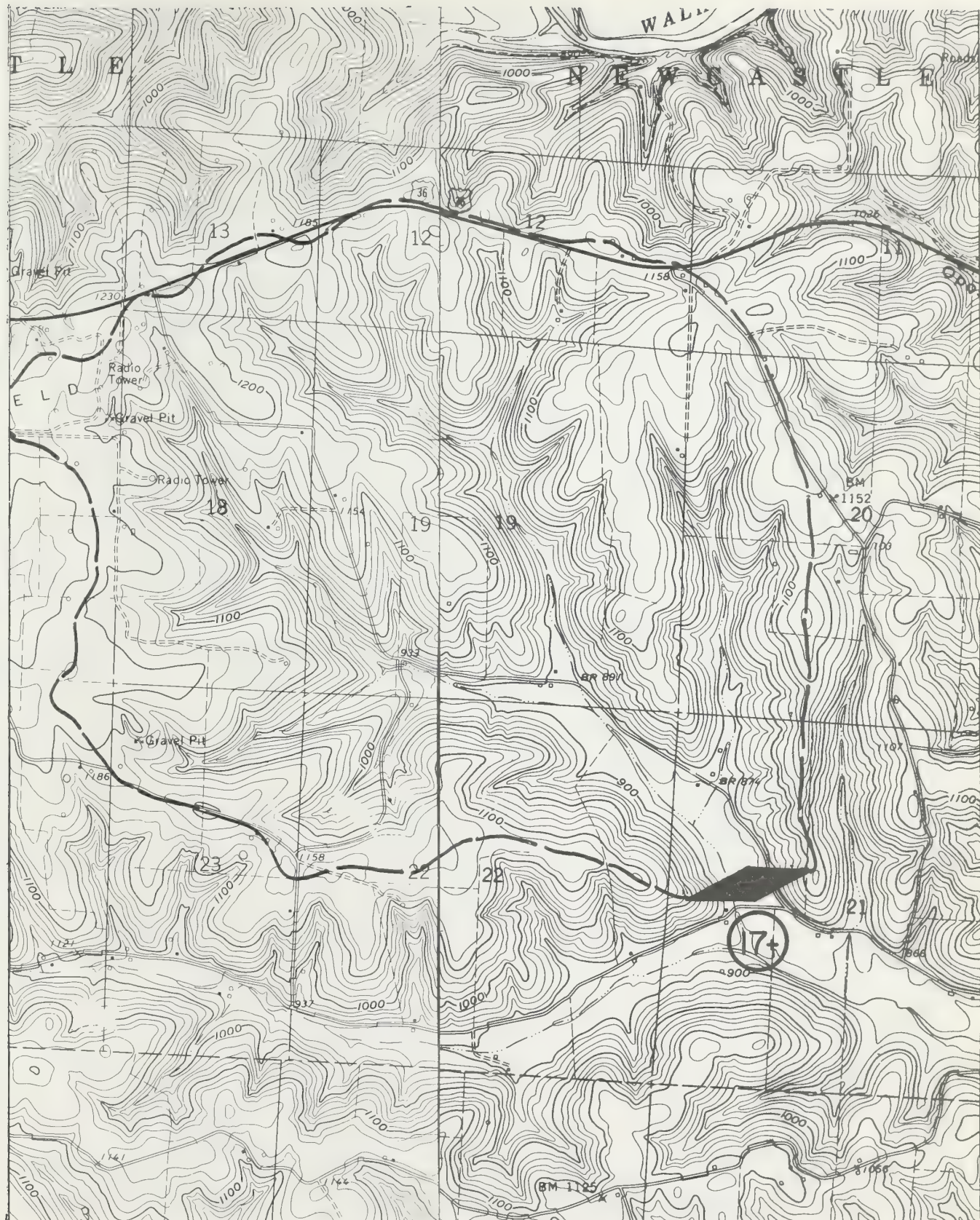
SITE NO. 4B-1 (10 +)
 SUBWATERSHED LOCAL DRAINAGE (MOHAWK CREEK)
 LOCATION CO. COSHOCTON TWP. JEFFERSON
 SEC. 2 SW⁴ OF SE⁴
 QUAD. WARSAW
 SCALE 1:24000 C.I. 20 ft.



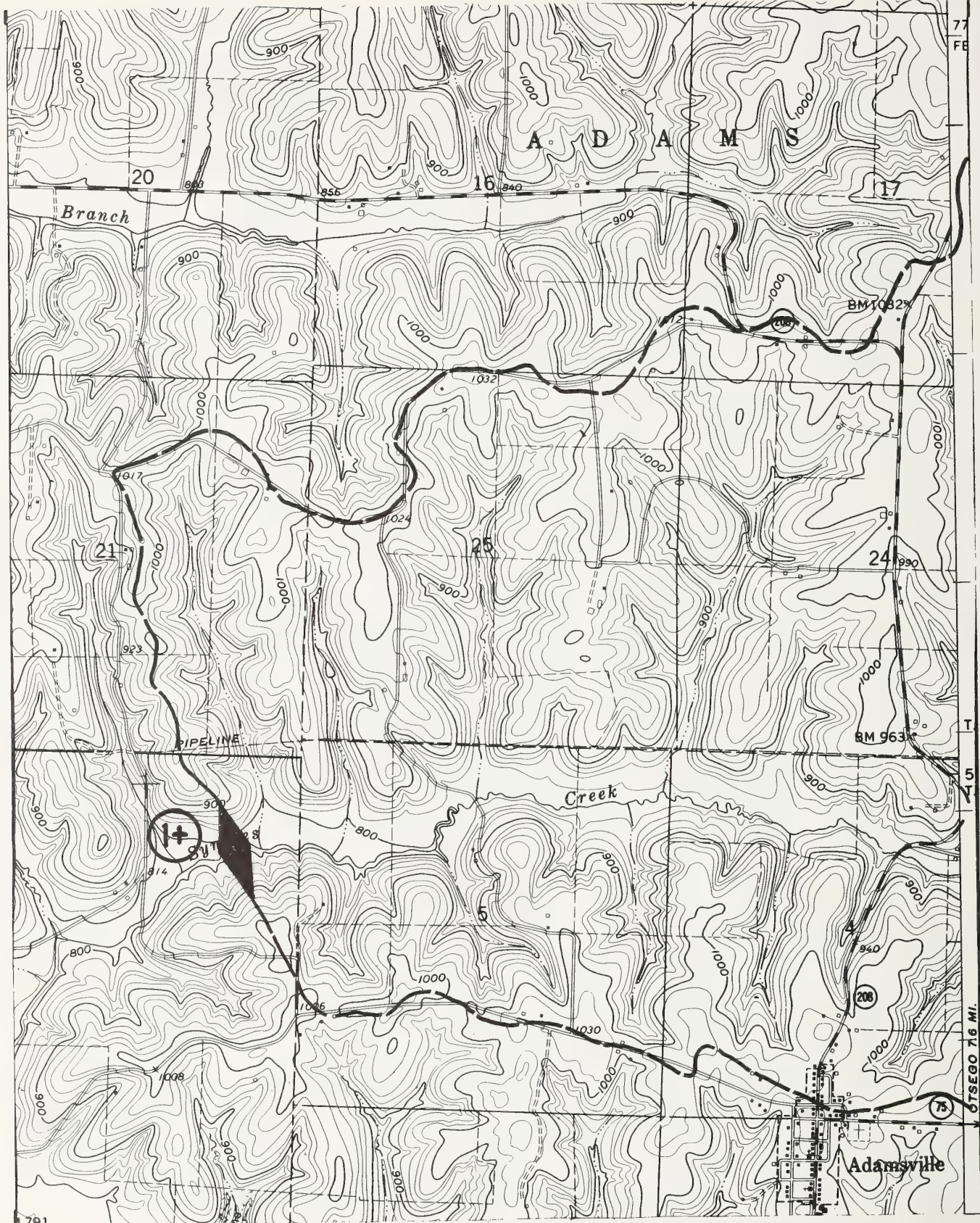
SITE NO. 4B-1 (12+)
 SUBWATERSHED LOCAL DRAINAGE (MOHAWK CREEK)
 LOCATION CO. COSHOCTON TWP. PERRY
 SEC. 10 SW⁴ OF NW⁴
 QUAD. WARSAW
 SCALE 1:24000 C.I. 20 ft.



SITE NO. 4B - 1 (16)
 SUBWATERSHED LOCAL DRAINAGE (MOHAWK CREEK)
 LOCATION CO. COSHOCTON TWP. NEW CASTLE
 SEC. 22 SW 1/4 OF SE 1/4
 QUAD. WARSAW
 SCALE 1:24000 C. I. 20 FT. ft.



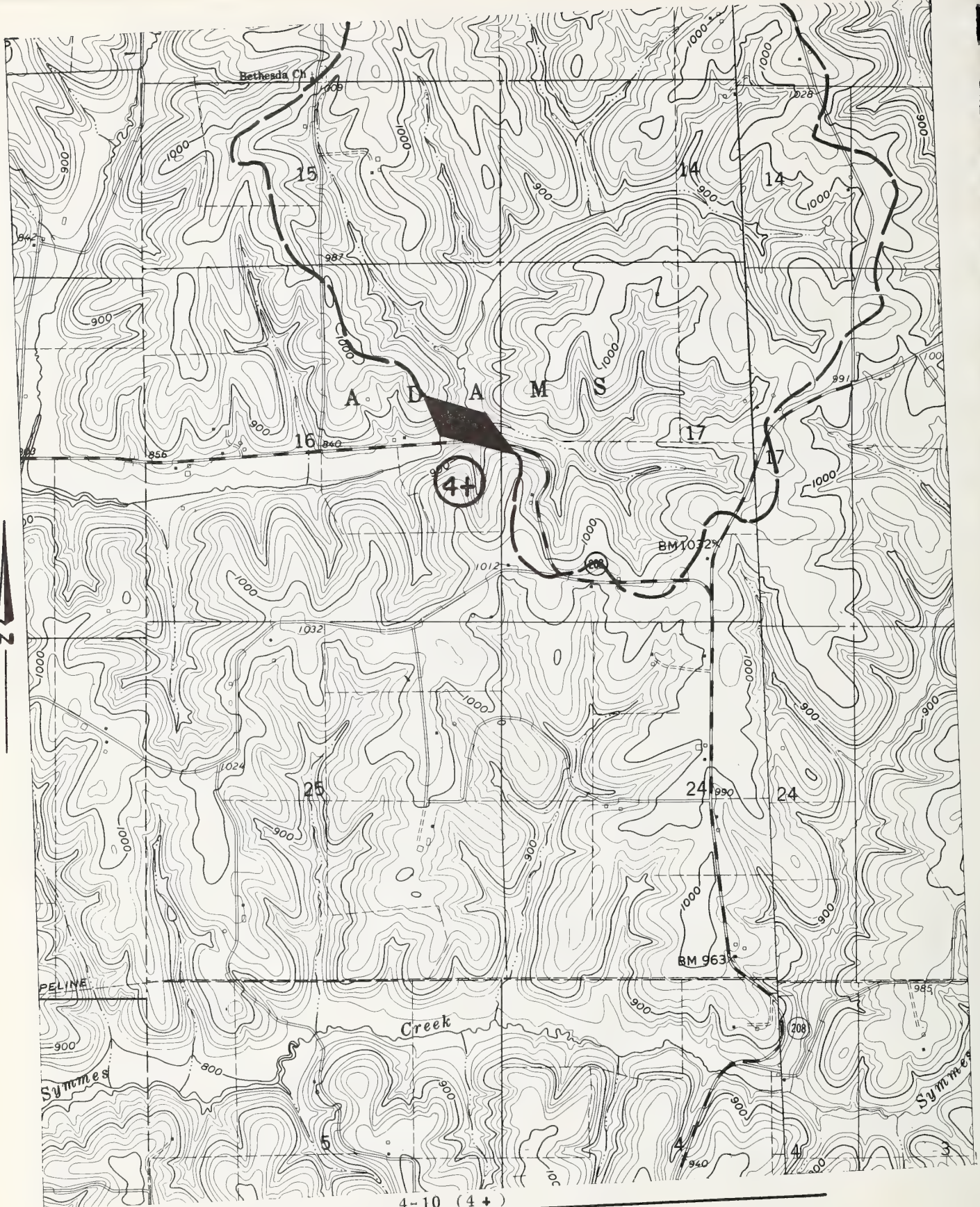
SITE NO. 4B-1 (17+)
 SUBWATERSHED LOCAL DRAINAGE (MOHAWK CREEK)
 LOCATION CO. COSHOCTON TWP. NEW CASTLE
 SEC. 21 SW¹ OF NW⁴
 QUAD. WARSAW
 SCALE 1:24000 C. I. 20 ft



SITE NO. 4-10 (1+)
 SUBWATERSHED LOCAL DRAINAGE (SYMME CR.)
 LOCATION CO. MUSKINGUM TWP. MADISON
 SEC. 1 NE⁴ OF NW⁴
 QUAD. ADAMSVILLE
 SCALE 1: 24000 C. I. 20 ft.



SITE NO. 4-10 (3+)
 SUBWATERSHED LOCAL DRAINAGE (SYMME'S CREEK)
 LOCATION CO. MUSKINGUM TWP. MADISON
 SEC. 11 NE⁴ OF SE⁴
 QUAD. ADAMSVILLE
 SCALE 1:24000 C. I. 20 ft.



SITE NO. 4-10 (4+)
SUBWATERSHED LOCAL DRAINAGE (SYMME'S CREEK)
LOCATION CO. MUSKINGUM TWP. ADAMS
SEC. 16 SE⁴ OF NE⁴
QUAD. ADAMSVILLE
SCALE 1:24000 C.I. 20 ft.

